

***SYLVANIA***

# lamps

2010-11



***SYLVANIA***

|                                                                                     |                      |         |
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ERLANGEN (GERMANY)



NEEMRANA (INDIA)



TIENEN (BELGIUM)



## HAVELLS SYLVANIA

Havells Sylvania is a leading full-spectrum provider of lighting solutions building on a century of expertise in lamps and fixtures. All over the world, people rely on powerful brands like Concord®, Lumiance® and Sylvania®\* for top quality, energy-efficient solutions to their individual lighting needs.

Formed in April 2007, Havells Sylvania is owned by Havells India Ltd. Havells is one of the largest and fastest growing manufacturers of electrical components and systems in India. With 94 branches and representative offices and 8,000 professionals in more than 50 countries, the group has grown rapidly to a 1 billion US\$ company.

At 15 manufacturing plants in India, Europe, Latin America & Africa, the group produces globally acclaimed products such as switchgear, cables, wires, fixtures and lamps.

\* In Australia, Canada, Mexico, New Zealand, Puerto Rico and the USA the brand name is with different owners.

## SYLVANIA LAMPS

Havells Sylvania is one of the world's largest producers of light sources and manufactures a wide range of lamps: incandescent, halogen, low-energy, fluorescent, LED and a comprehensive range of HID lamps and other specialist lighting products for the professional specifier and user.

Sylvania lamps are distributed from stock, via our national sales organisations around the world, to original equipment manufacturers and retail outlets and through professional wholesale distribution to installers and end users.

## FACTORIES

Sylvania has created Competency Centres for its major lamp product groups – bringing specific design, marketing and production engineering skills, for each key lamp group, together in one place: to co-ordinate and focus the years of experience this brings to new product development; and to bring products into the marketplace efficiently and effectively.

- **Erlangen** (Germany): produces fluorescent lamps of all types.
- **Neemrana** (India): produces innovative, energy-saving compact fluorescent lamps.
- **Tienen** (Belgium): specialises in low voltage and mains voltage halogen lamps, HID lamps, incandescent lamps and LEDs.



#### INCANDESCENT LAMPS

Incandescent lamps remain highly popular for home lighting. Research shows that new shapes and colour tones will stimulate consumers to buy light bulbs which add atmosphere to every part of the home.



#### TUNGSTEN HALOGEN LAMPS

Low voltage tungsten halogen lamps come in many forms and sizes and thanks to a highly advanced and precise technique, are also available in low-pressure versions, which allow free burning in open fixtures. Sylvania's mains voltage tungsten halogen lamps, including the 4000 hours HI-SPOT® SUPERIA range, combine beautiful bright halogen light with the many advantages of mains voltage.



#### LED

LEDs are becoming more and more efficient and applicable for accent lighting purposes. They are available in various shapes, intensities, beam angles and colours. To meet the need for difficult to service, long lasting light source, LEDs are the perfect solution. The small dimensions of these light sources and the easy connectivity make them popular in the creation of staggering easy to install lighting effects.

Sylvania offers a comprehensive range of mounted LED light sources. This range covers the widest application possibilities for accent light solutions. For specific needs and tailor made solutions, Sylvania is always able to offer an LED module that fits the need of our customer.



#### COMPACT FLUORESCENT LAMPS

Compact fluorescent lamps meet the growing need for energy-efficient, long lasting, light sources for a wide variety of commercial and domestic applications. The Sylvania Lynx range offers comprehensive solutions for diverse applications.

The Highly successful Mini-Lynx Fast-Start range offers unique compactness and is designed to replace standard incandescent GLS lamps in any application where they are used, while using a fifth of the energy and lasting six to fifteen times longer (6000 to 15000 hours) – reducing both energy bills and lamp changes. Lynx and Mini-Lynx lamps share the same common features of long life, high colour rendering and constant light output throughout life.

## LAMP RANGE

|                        |         |
|------------------------|---------|
| ➤ Incandescent         | 8-29    |
| ➤ Tungsten Halogen     | 30-67   |
| ➤ LED                  | 68-81   |
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### 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.

There have been significant improvements in recent years in lamp efficacy, colour rendering, lumen maintenance and lamp life. Perhaps the most important improvement has been the use of advanced phosphors, which offer high efficacy and excellent colour rendering.

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.



### HID LAMPS

High Intensity Discharge lamps provide excellent luminous efficiency, long life and colour rendering to meet a variety of lighting needs, in both indoor applications – shops and industry for example – and exterior applications such as street and architectural lighting.

Sylvania's ranges of discharge lamps are characterised by quality lamp materials, advanced manufacturing techniques and quality control procedures, which ensure their performance and reliability.



### SPECIAL APPLICATION LAMPS

Sylvania offers a comprehensive range of lamps to meet a diverse range of specialist applications. This Special product range includes Photo-, Stage-, Petcare-, Studio-, Traffic- and Sun Tanning lamps.



## GUIDE TO SYMBOLS

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



## Manufacturer's lamp cross reference

| Sylvania             | Osram             | Philips          | GE            |
|----------------------|-------------------|------------------|---------------|
| GLS                  | Classic A shape   | Standard A-shape | A-shape       |
| GLS-T                | Classic T60 shape | Standard T-shape | T-shape       |
| Candle               | B shape           | Candle B shape   | C-shape       |
| Candle Twisted       | Classic A shape   | Standard A-shape | A-shape       |
| Candle Windshape     | Classic T60 shape | Standard T-shape | T-shape       |
| Ball                 | Classic A shape   | Standard A-shape | A-shape       |
| Globe                | G Shape           | Globe G-Shape    | G-Shape       |
| Reflector            | R Shape           | SPOTONE R-Shape  | R-Shape       |
| PAR 38               | PAR 38            | SPOTONE PAR 38   | PAR 38        |
| Tubular T            | Shape/Tubular     | Tubular          | T-Shape       |
| Pygmy T              | Shape/Pygmy       | Pygmy            | S-Shape       |
| Striplights          | Striplights       | Linear T26/T37   | Striplights   |
| Linear Architectural | Linestra          | Philinea T30     | Architectural |



# INCANDESCENT



## GLS LAMPS

GLS Clear A60/A55  
GLS Colour

12  
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GLS Extra Low Voltage  
GLS Rough Service

**12-15**  
14  
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## CANDLE LAMPS

Candle Clear  
Candle Twisted Clear

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Candle Colour  
Candle Windshape

**16-18**  
18  
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## BALL LAMPS

Ball Clear

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Ball Colour

**20-21**  
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## REFLECTOR LAMPS

Reflector Standard  
Reflector Colour

22  
23

Crown Silvered & Gold

**22-24**  
24



## PAR LAMPS

Par 38 Cool Beam

25

**25**



## TUBULAR LAMPS

Tubular Clear

26

**26**



## PYGMY LAMPS

Pygmy Clear/Oven/Refrigerator

27

**27**



## STRIPLIGHTS/LINEAR LAMPS

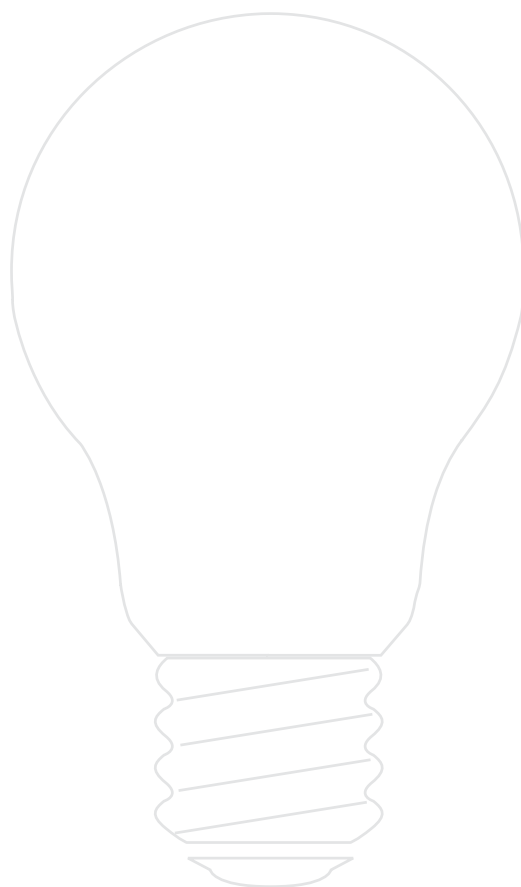
striplight/linear architectural

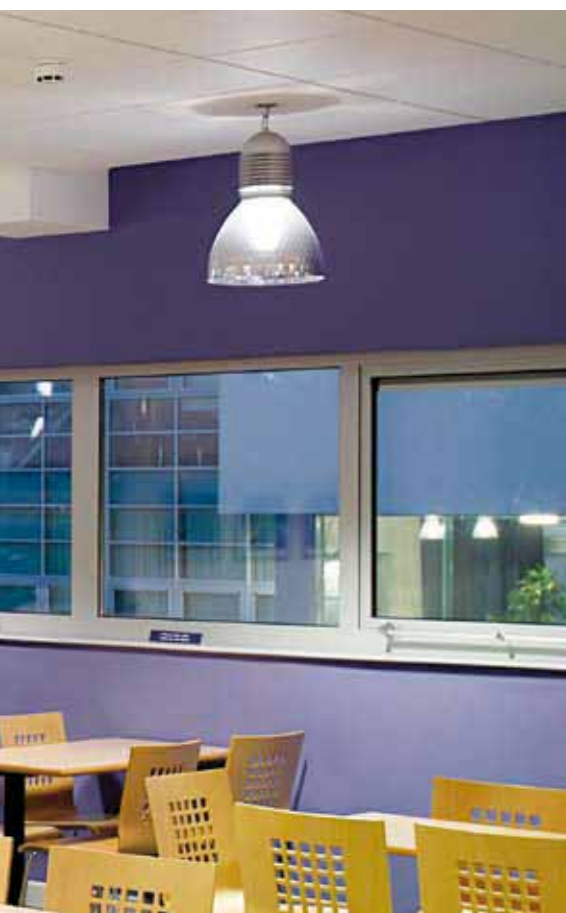
28

**28**



Incandescent lamps, with a typical average rated life of 1000 hours, are still widely used throughout the world in commercial and domestic lighting applications. With a bright portfolio and shapes as GLS, GLS T, candle, Ball, Reflector, PAR, Tublar, Pygmy, Striplights, and linear architectural.





#### **CLEAR**

Clear GLS lamps deliver extra sparkle demanded for chandeliers and glass luminaires.



#### **CLEAR CANDLE**

Clear lamps have a crystal clear envelope for added sparkle, commercial and domestic decorative lighting application



#### **CLEAR BALL**

Round envelope, suitable for commercial and domestic decorative lighting



#### **CANDLE WINDSHAPE**

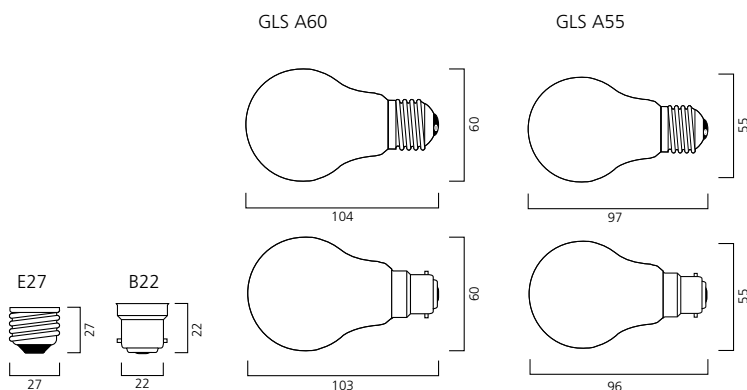
Now available in different colours and formats, including frosted and gold finish, and flicker candles.

# GLS

## Clear A60 / A55



- Standard pear shaped incandescent lamps with a crystal clear envelope
- Clear sparkling light
- Easy to operate
- Excellent colour reproduction
- Commercial and domestic lighting applications



## GLS

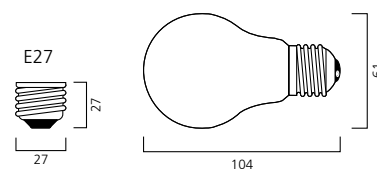
| Code                 | Description        | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty |
|----------------------|--------------------|------|------|-----|-------------|---------------|-------------|
| <b>GLS Clear A60</b> |                    |      |      |     |             |               |             |
| <b>0003030</b>       | 15W 240V E27 Clear | 15W  | 240V | E27 | Clear       | 105lm         | 100         |
| <b>0003040</b>       | 15W 240V B22 Clear | 15W  | 240V | B22 | Clear       | 105lm         | 100         |

| Code                 | Description    | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty |
|----------------------|----------------|------|------|-----|-------------|---------------|-------------|
| <b>GLS Clear A55</b> |                |      |      |     |             |               |             |
| <b>0003716</b>       | 25W 230V Clear | 25W  | 230V | E27 | Clear       | 230 lm        | 100         |
| <b>0003726</b>       | 40W 230V Clear | 40W  | 230V | E27 | Clear       | 415 lm        | 100         |
| <b>0003744</b>       | 60W 230V Clear | 60W  | 230V | E27 | Clear       | 710 lm        | 100         |
| <b>0003749</b>       | 60W 230V Clear | 60W  | 230V | B22 | Clear       | 710 lm        | 100         |
| <b>0003765</b>       | 75W 230V Clear | 75W  | 230V | E27 | Clear       | 925 lm        | 100         |
| <b>0003770</b>       | 75W 230V Clear | 75W  | 230V | B22 | Clear       | 915 lm        | 100         |
| <b>0003720</b>       | 25W 240V Clear | 25W  | 240V | E27 | Clear       | 225 lm        | 100         |
| <b>0003723</b>       | 25W 240V Clear | 25W  | 240V | B22 | Clear       | 225 lm        | 100         |
| <b>0003737</b>       | 40W 240V Clear | 40W  | 240V | E27 | Clear       | 410 lm        | 100         |
| <b>0003740</b>       | 40W 240V Clear | 40W  | 240V | B22 | Clear       | 410 lm        | 100         |
| <b>0003754</b>       | 60W 240V Clear | 60W  | 240V | E27 | Clear       | 700 lm        | 100         |
| <b>0003773</b>       | 75W 240V Clear | 75W  | 240V | E27 | Clear       | 915 lm        | 100         |

## GLS Colour



- Pear shaped lamps with a choice of vivid coloured envelopes
- Choice of four colours: Blue, Red, Green and Yellow
- Weather resistant (Vacuum)
- To create a festive atmosphere e.g. lighting of Christmas trees, fairs, carnivals etc.
- Suitable for exterior applications



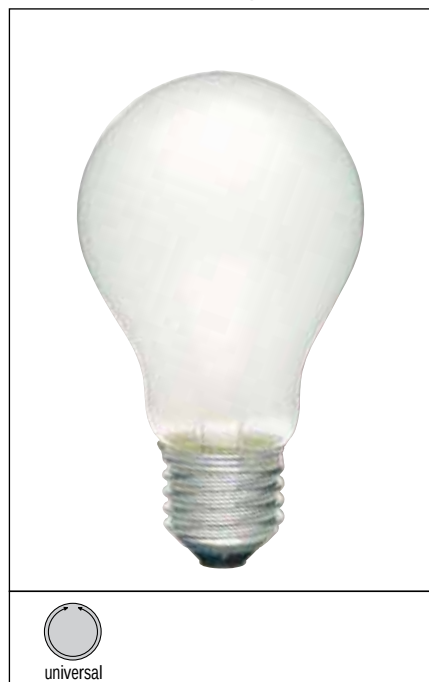
### GLS COLOUR

| Code              | Description         | Watt | Volt | Cap | Lamp Finish | Packing. Qty |
|-------------------|---------------------|------|------|-----|-------------|--------------|
| <b>GLS Colour</b> |                     |      |      |     |             |              |
| <b>0008453</b>    | 25W 240V E27 Blue   | 25W  | 240V | E27 | Blue        | 100          |
| <b>0008454</b>    | 25W 240V E27 Red    | 25W  | 240V | E27 | Red         | 100          |
| <b>0008455</b>    | 25W 240V E27 Green  | 25W  | 240V | E27 | Green       | 100          |
| <b>0008456</b>    | 25W 240V E27 Yellow | 25W  | 240V | E27 | Yellow      | 100          |

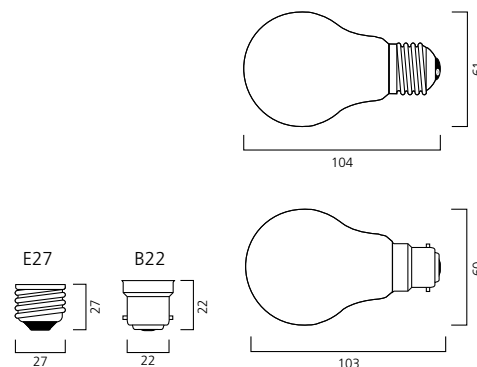


## GLS

### Extra Low Voltage

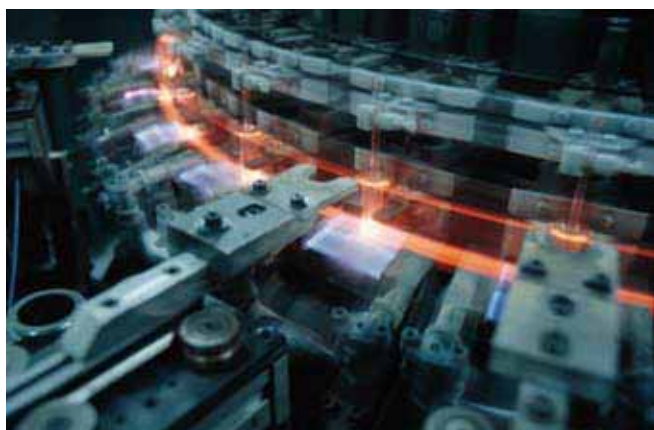


- Pear shaped incandescent lamps for operating on low voltage circuits
- Pearl or clear envelope
- Suitable for operation on low voltage circuits (24-25V)
- Extended lifetime of 2500 hours for 25W and 40W versions
- 1000 hour lifetime for 60W and 100W versions
- Suitable for emergency lighting, machines, signs and signal panels



## GLS

| Code                               | Description           | Watt | Volt   | Cap | Lamp Finish | Luminous Flux | Packing Qty |
|------------------------------------|-----------------------|------|--------|-----|-------------|---------------|-------------|
| <b>GLS Extra Low Voltage Clear</b> |                       |      |        |     |             |               |             |
| 0009668                            | 25W 24-25V E27 Clear  | 25W  | 24-25V | E27 | Clear       | 380 lm        | 100         |
| 0009696                            | 40W 24-25V E27 Clear  | 40W  | 24-25V | E27 | Clear       | 600 lm        | 100         |
| 0009694                            | 40W 24-25V B22 Clear  | 40W  | 24-25V | B22 | Clear       | 600 lm        | 100         |
| 0009728                            | 60W 24-25V E27 Clear  | 60W  | 24-25V | E27 | Clear       | 960 lm        | 100         |
| 0009780                            | 100W 24-25V E27 Clear | 100W | 24-25V | E27 | Clear       | 1800 lm       | 100         |
| <b>GLS Extra Low Voltage Pearl</b> |                       |      |        |     |             |               |             |
| 0009697                            | 40W 24-25V E27 Pearl  | 40W  | 24-25V | E27 | Pearl       | 600 lm        | 100         |
| 0009729                            | 60W 24-25V E27 Pearl  | 60W  | 24-25V | E27 | Pearl       | 960 lm        | 100         |

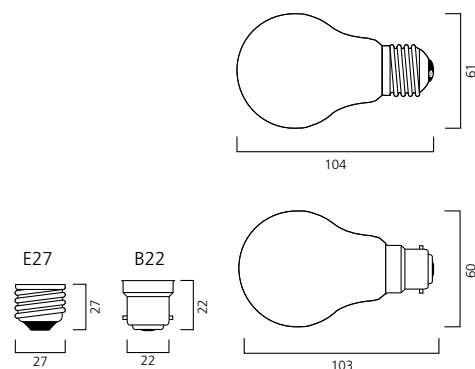


## GLS

### Rough Service



- Extra durable lamp resistant to vibrations
- Ideal for use in industrial and working environments like garages etc.
- Available in pearl finish envelope
- Extended 1500 hour service life



## GLS

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



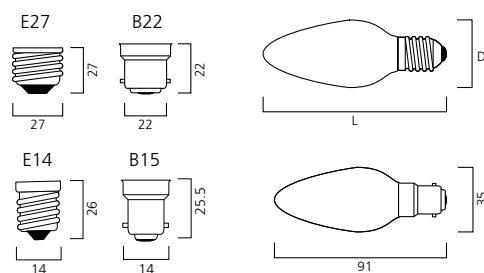
# CANDLE

Clear



- Candle shaped incandescent lamps
- Lamps have a crystal clear envelope for added sparkle
- More even, Superior quality sparkling crystal clear light impeccable quality (Clear)
- Commercial and domestic decorative lighting applications

| <b>E14</b> | <b>15W</b> | <b>25W</b> | <b>40W</b> | <b>60W</b> |
|------------|------------|------------|------------|------------|
| L          | 97         | 97         | 97         | 97         |
| D          | 35         | 35         | 35         | 35         |
| <b>E27</b> | <b>15W</b> | <b>25W</b> | <b>40W</b> | <b>60W</b> |
| L          | –          | 92         | –          | 92         |
| D          | –          | 35         | –          | 35         |



## CANDLE

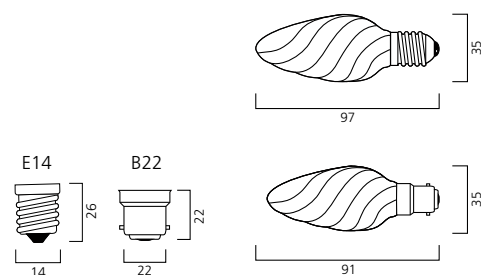
| Code                | Description        | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty. |
|---------------------|--------------------|------|------|-----|-------------|---------------|--------------|
| <b>Candle Clear</b> |                    |      |      |     |             |               |              |
| <b>0011270</b>      | 25W 230V E14 Clear | 25W  | 230V | E14 | Clear       | 215 lm        | 100          |
| <b>0011300</b>      | 40W 230V E14 Clear | 40W  | 230V | E14 | Clear       | 415 lm        | 100          |
| <b>0011350</b>      | 60W 230V E14 Clear | 60W  | 230V | E14 | Clear       | 700 lm        | 100          |
| <b>0011263</b>      | 15W 240V E14 Clear | 15W  | 240V | E14 | Clear       | 100 lm        | 100          |
| <b>0006410</b>      | 25W 240V E27 Clear | 25W  | 240V | E27 | Clear       | 215 lm        | 100          |
| <b>0011287</b>      | 25W 240V B22 Clear | 25W  | 240V | B22 | Clear       | 215 lm        | 100          |
| <b>0011288</b>      | 25W 240V B15 Clear | 25W  | 240V | B15 | Clear       | 215 lm        | 100          |
| <b>0006411</b>      | 40W 240V E27 Clear | 40W  | 240V | E27 | Clear       | 415 lm        | 100          |
| <b>0011317</b>      | 40W 240V B22 Clear | 40W  | 240V | B22 | Clear       | 415 lm        | 100          |
| <b>0011318</b>      | 40W 240V B15 Clear | 40W  | 240V | B15 | Clear       | 415 lm        | 100          |
| <b>0006412</b>      | 60W 240V E27 Clear | 60W  | 240V | E27 | Clear       | 700 lm        | 100          |
| <b>0011367</b>      | 60W 240V B22 Clear | 60W  | 240V | B22 | Clear       | 700 lm        | 100          |
| <b>0011368</b>      | 60W 240V B15 Clear | 60W  | 240V | B15 | Clear       | 700 lm        | 100          |

## CANDLE

### Twisted Clear



- Candle shaped lamps with a twisted envelope
- Decorative appearance
- To replace candle lamps in wall or ceiling luminaires
- E14 and B22 cap
- Commercial and domestic decorative lighting applications



## CANDLE

| Code                        | Description        | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty. |
|-----------------------------|--------------------|------|------|-----|-------------|---------------|--------------|
| <b>Candle Twisted Clear</b> |                    |      |      |     |             |               |              |
| <b>0011403</b>              | 25W 240V E14 Clear | 25W  | 240V | E14 | Clear       | 215 lm        | 100          |
| <b>0011414</b>              | 40W 240V E14 Clear | 40W  | 240V | E14 | Clear       | 415 lm        | 100          |
| <b>0011430</b>              | 60W 240V B22 Clear | 60W  | 240V | B22 | Clear       | 700 lm        | 100          |

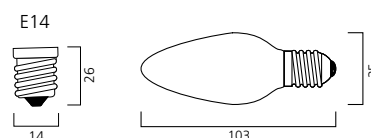


## CANDLE

### Colour/ Windshape



- Candle shaped envelope
- Available in 4 colours – Blue, Red, Green and Yellow
- E14 cap
- Add a touch of colour for a party ambience
- Commercial and domestic decorative lighting

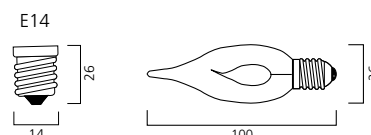


### CANDLE COLOUR

| Code           | Description    | Watt | Volt | Cap | Lamp Finish | Packing Qty. |
|----------------|----------------|------|------|-----|-------------|--------------|
| <b>0008965</b> | 40W E14 Blue   | 40W  | 230V | E14 | Blue        | 100          |
| <b>0008966</b> | 40W E14 Red    | 40W  | 230V | E14 | Red         | 100          |
| <b>0008967</b> | 40W E14 Green  | 40W  | 230V | E14 | Green       | 100          |
| <b>0008968</b> | 40W E14 Yellow | 40W  | 230V | E14 | Yellow      | 100          |



- Decorative lamp
- Continuous flickering effect
- E14 cap
- Domestic decorative lighting



### CANDLE WINDSHAPE

| Code           | Description         | Watt | Volt | Cap | Lamp Finish | Packing Qty. |
|----------------|---------------------|------|------|-----|-------------|--------------|
| <b>0007997</b> | 3W 240V E14 Flicker | 3W   | 240V | E14 | Clear       | 25           |



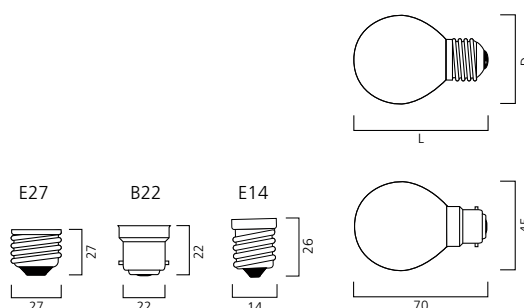
## BALL

### Clear



- Round lamp envelope
- Clear finish for sparkling crystal clear light
- E14, E27 and B22 cap
- Suitable for commercial and domestic decorative lighting

| E14 | 15W | 25W | 40W | 60W |
|-----|-----|-----|-----|-----|
| L   | 73  | 73  | 73  | 73  |
| D   | 45  | 45  | 45  | 45  |
| E27 | 15W | 25W | 40W | 60W |
| L   | 71  | 71  | 71  | 71  |
| D   | 45  | 45  | 45  | 45  |



## BALL

| Code              | Description        | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty. |
|-------------------|--------------------|------|------|-----|-------------|---------------|--------------|
| <b>Ball Clear</b> |                    |      |      |     |             |               |              |
| 0036650           | 25W 230V E14 Clear | 25W  | 230V | E14 | Clear       | 215 lm        | 100          |
| 0037400           | 25W 230V E27 Clear | 25W  | 230V | E27 | Clear       | 215 lm        | 100          |
| 0037610           | 25W 230V B22 Clear | 25W  | 230V | B22 | Clear       | 215 lm        | 100          |
| 0036850           | 40W 230V E14 Clear | 40W  | 230V | E14 | Clear       | 415 lm        | 100          |
| 0037450           | 40W 230V E27 Clear | 40W  | 230V | E27 | Clear       | 415 lm        | 100          |
| 0037650           | 40W 230V B22 Clear | 40W  | 230V | B22 | Clear       | 415 lm        | 100          |
| 0036950           | 60W 230V E14 Clear | 60W  | 230V | E14 | Clear       | 700 lm        | 100          |
| 0037500           | 60W 230V E27 Clear | 60W  | 230V | E27 | Clear       | 700 lm        | 100          |
| 0037700           | 60W 230V B22 Clear | 60W  | 230V | B22 | Clear       | 700 lm        | 100          |



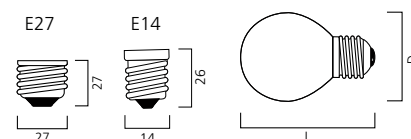
## BALL

### Colour



- Round lamp envelope
- Available in 4 colours – Blue, Red, Green and Yellow
- Weather resistant (vacuum)
- To create a festive atmosphere e.g. lighting of carnivals, fairs, festivals etc.

| <b>E14</b> | <b>15W</b> | <b>25W</b> | <b>40W</b> | <b>60W</b> |
|------------|------------|------------|------------|------------|
| L          | 73         | 73         | 73         | 73         |
| D          | 45         | 45         | 45         | 45         |
| <b>E27</b> | <b>15W</b> | <b>25W</b> | <b>40W</b> | <b>60W</b> |
| L          | 71         | 71         | 71         | 71         |
| D          | 45         | 45         | 45         | 45         |



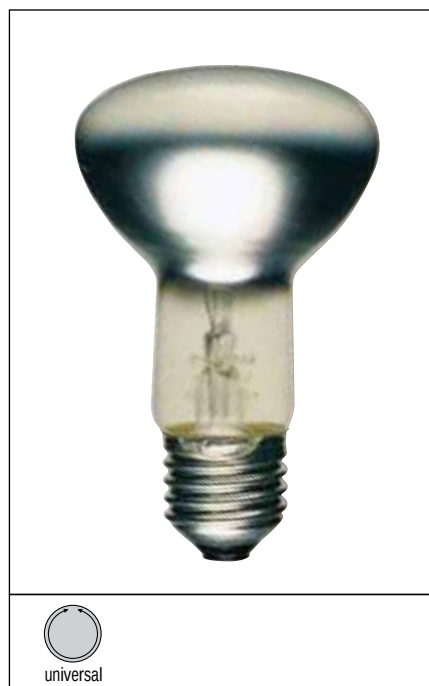
## BALL

| Code               | Description         | Watt | Volt | Cap | Lamp Finish | Packing Qty. |
|--------------------|---------------------|------|------|-----|-------------|--------------|
| <b>Ball Colour</b> |                     |      |      |     |             |              |
| <b>0008852</b>     | 15W 230V E14 Blue   | 15W  | 230V | E14 | Blue        | 100          |
| <b>0008853</b>     | 15W 230V E14 Red    | 15W  | 230V | E14 | Red         | 100          |
| <b>0008854</b>     | 15W 230V E14 Green  | 15W  | 230V | E14 | Green       | 100          |
| <b>0008855</b>     | 15W 230V E14 Yellow | 15W  | 230V | E14 | Yellow      | 100          |
| <b>0008757</b>     | 25W 230V E27 Blue   | 25W  | 230V | E27 | Blue        | 100          |
| <b>0008758</b>     | 25W 230V E27 Red    | 25W  | 230V | E27 | Red         | 100          |
| <b>0008759</b>     | 25W 230V E27 Green  | 25W  | 230V | E27 | Green       | 100          |
| <b>0008760</b>     | 25W 230V E27 Yellow | 25W  | 230V | E27 | Yellow      | 100          |



## REFLECTOR

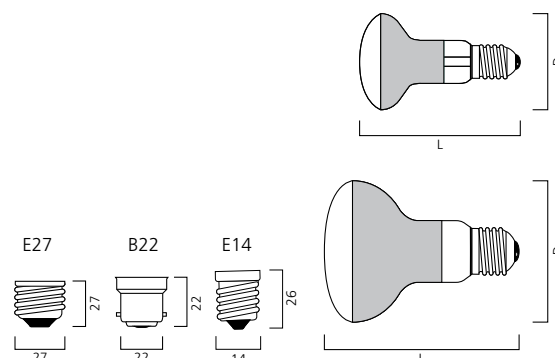
### Standard



- 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

|   | R39 | R50 |
|---|-----|-----|
| L | 65  | 85  |
| D | 39  | 50  |

|   | R63 | R80 | R90 | R95 |
|---|-----|-----|-----|-----|
| L | 103 | 110 | 115 | 132 |
| D | 63  | 80  | 90  | 95  |



## REFLECTOR

| Code                                | Description         | Watt | Volt | Luminous Intensity | Beam Angle | Cap | Crown Finish | Packing Qty. |
|-------------------------------------|---------------------|------|------|--------------------|------------|-----|--------------|--------------|
| <b>Reflector Standard R39 39mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0015908                             | 30W 240V R39 Pearl  | 30W  | 240V | 120 cd             | 40°        | E14 | Pearl        | 100          |
| <b>Reflector Standard R50 50mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0015535                             | 25W 240V R50 Pearl  | 25W  | 240V | 175 cd             | 35°        | E14 | Pearl        | 100          |
| 0015537                             | 40W 240V R50 Pearl  | 40W  | 240V | 325 cd             | 35°        | E14 | Pearl        | 100          |
| <b>Reflector Standard R63 63mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0015550                             | 40W 240V R63 Pearl  | 40W  | 240V | 325 cd             | 35°        | E27 | Pearl        | 100          |
| 0015560                             | 60W 240V R63 Pearl  | 60W  | 240V | 560 cd             | 35°        | E27 | Pearl        | 100          |
| <b>Reflector Standard R80 80mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0015570                             | 40W 240V R80 Pearl  | 40W  | 240V | 160 cd             | 80°        | E27 | Pearl        | 100          |
| 0015580                             | 60W 240V R80 Pearl  | 60W  | 240V | 260 cd             | 80°        | E27 | Pearl        | 100          |
| 0015584                             | 75W 240V R80 Pearl  | 75W  | 240V | 345 cd             | 80°        | E27 | Pearl        | 100          |
| 0015585                             | 100W 240V R80 Pearl | 100W | 240V | 500 cd             | 80°        | E27 | Pearl        | 100          |
| 0015593                             | 100W 240V R80 Pearl | 100W | 240V | 560 cd             | 80°        | B22 | Pearl        | 100          |
| <b>Reflector Standard R90 90mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0016185                             | 60W 230V R90 Pearl  | 60W  | 230V | –                  | 80°        | E27 | Pearl        | 100          |
| 0016196                             | 100W 230V R90 Pearl | 100W | 230V | –                  | 80°        | E27 | Pearl        | 20           |
| <b>Reflector Standard R95 95mmØ</b> |                     |      |      |                    |            |     |              |              |
| 0015600                             | 75W 240V R95 Pearl  | 75W  | 240V | 750 cd             | 35°        | E27 | Pearl        | 20           |
| 0015620                             | 100W 240V R95 Pearl | 100W | 240V | 1060 cd            | 35°        | E27 | Pearl        | 20           |

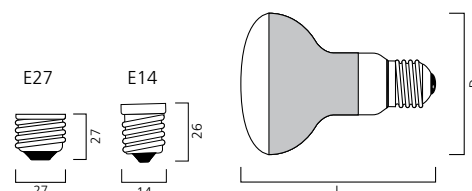
## REFLECTOR

### Colour



- Blown glass reflector lamps
- Coloured crown and integral aluminium reflector
- Choice of colours.
- Available in 3 diameters 50, 63 and 80mm
- To create special lighting effects in bars, clubs and discos as well as shop windows

|   | R50 | R80 | R63 |
|---|-----|-----|-----|
| L | 85  | 110 | 100 |
| D | 50  | 80  | 63  |



## REFLECTOR

| Code                                | Description         | Watt | Volt | Cap | Crown Finish | Packing Quantity |
|-------------------------------------|---------------------|------|------|-----|--------------|------------------|
| <b>Reflector Coloured R50 50mmØ</b> |                     |      |      |     |              |                  |
| 0016650                             | 40W 240V R50 Blue   | 40W  | 240V | E14 | Blue         | 100              |
| 0016651                             | 40W 240V R50 Red    | 40W  | 240V | E14 | Red          | 100              |
| <b>Reflector Coloured R63 63mmØ</b> |                     |      |      |     |              |                  |
| 0015660                             | 40W 240V R63 Blue   | 40W  | 240V | E27 | Blue         | 100              |
| 0015661                             | 40W 240V R63 Red    | 40W  | 240V | E27 | Red          | 100              |
| 0015663                             | 40W 240V R63 Yellow | 40W  | 240V | E27 | Yellow       | 100              |
| <b>Reflector Coloured R80 80mmØ</b> |                     |      |      |     |              |                  |
| 0015701                             | 60W 240V R80 Red    | 60W  | 240V | E27 | Red          | 100              |
| 0015703                             | 60W 240V R80 Yellow | 60W  | 240V | E27 | Yellow       | 100              |

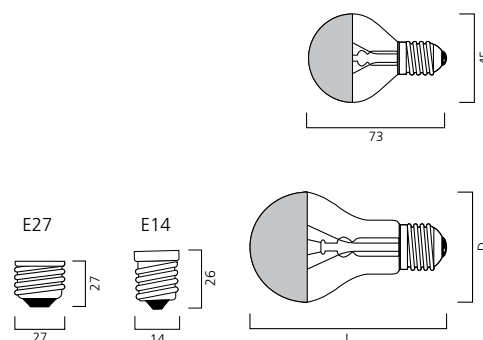
## CROWN

### Silvered & Gold



- 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
- Commercial display lighting and domestic decorative lighting applications
- For use in parabolic reflector spotlights

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



## CROWN

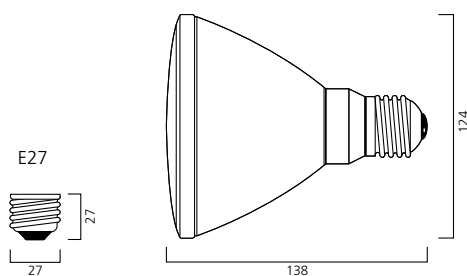
| Code                  | Description             | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty. |
|-----------------------|-------------------------|------|------|-----|-------------|---------------|--------------|
| <b>Crown Silvered</b> |                         |      |      | 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

## PAR 38

### Cool Beam



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

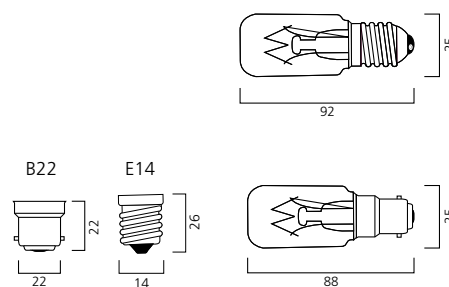


## TUBULAR

### Clear



- Krypton gas filling offering more light versus standard clear lamps
- E14 or B22 cap
- Domestic and commercial lighting in homes, offices, shops and hotels
- For use in small, compact luminaires
- Suitable for integration into furniture



## TUBULAR CLEAR

| Code           | Description        | Watt | Volt | Cap | Crown Finish | Luminous Intensity | Packing Qty. |
|----------------|--------------------|------|------|-----|--------------|--------------------|--------------|
| <b>0007352</b> | 25W 230V E14 Clear | 25W  | 230V | E14 | Clear        | 230 lm             | 100          |
| <b>0007360</b> | 40W 230V E14 Clear | 40W  | 230V | E14 | Clear        | 415 lm             | 100          |
| <b>0007362</b> | 40W 230V B22 Clear | 40W  | 230V | B22 | Clear        | 415 lm             | 100          |



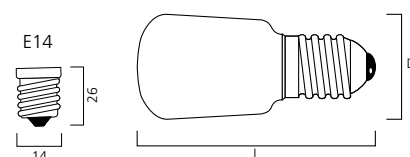
## PYGMY

Clear / Oven till 300°C / Refrigerator



- Small compact incandescent lamps for special applications
- Clear or pearl finish
- Oven lamp high temperature resistant
- E14 cap

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



## PYGMY

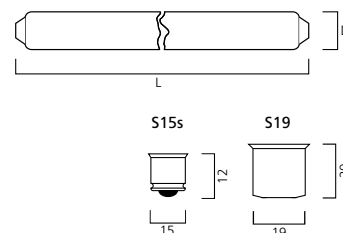
| Code                         | Description              | Watt | Volt | Cap | Lamp Finish | Luminous Flux | Packing Qty. |
|------------------------------|--------------------------|------|------|-----|-------------|---------------|--------------|
| <b>Pygmy</b>                 |                          |      |      |     |             |               |              |
| 0008100                      | 15W 240V E14 Clear       | 15W  | 240V | E14 | Clear       | 100 lm        | 100          |
| 0008120                      | 25W 240V E14 Clear       | 25W  | 240V | E14 | Clear       | 225 lm        | 100          |
| 0008020                      | 15W 230V E14 Pearl       | 15W  | 230V | E14 | Pearl       | 105 lm        | 100          |
| 0008022                      | 25W 230V E14 Pearl       | 25W  | 230V | E14 | Pearl       | 230 lm        | 100          |
| <b>Pygmy Oven till 300°C</b> |                          |      |      |     |             |               |              |
| 0008072                      | 15W 240V E14 22mm Ø Oven | 15W  | 240V | E14 | Clear       | 80 lm         | 100          |
| <b>Pygmy Refrigerator</b>    |                          |      |      |     |             |               |              |
| 0007339                      | 15W 230V E14 Clear       | 15W  | 230V | E14 | Clear       | 85 lm         | 100          |

## STRIPLIGHT / LINEAR ARCHITECTURAL



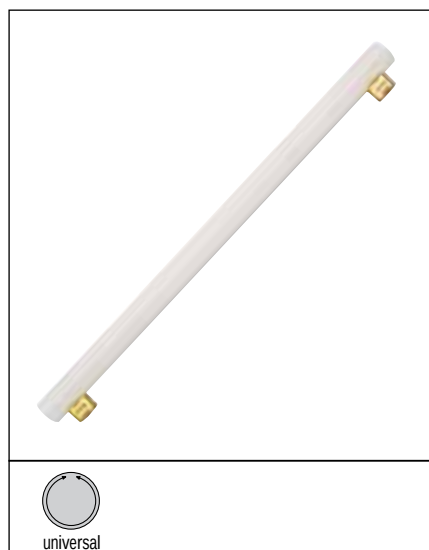
- Double-ended linear incandescent lamps
- Clear or opal finish
- Available in three lengths – 221mm, 284mm and 310mm
- S15s and S19 cap
- Bathroom, bedroom and kitchen luminaires.  
Cupboard lighting and over mirrors

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



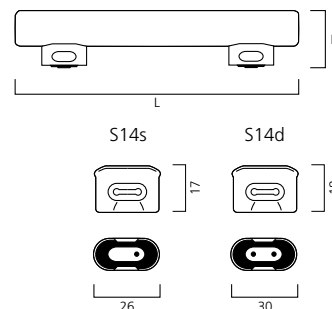
### STRIPLIGHTS

| Code           | Description              | Watt | Volt     | Cap  | Length | Lamp Finish | Luminous Flux | Packing Qty. |
|----------------|--------------------------|------|----------|------|--------|-------------|---------------|--------------|
| <b>9007550</b> | 30W 240-250V S15s Clear  | 30W  | 240-250V | S15s | 221mm  | Clear       | 270 lm        | 50           |
| <b>9007597</b> | 60W 240-250V S15s Clear  | 60W  | 240-250V | S15s | 284mm  | Clear       | 500 lm        | 25           |
| <b>9007551</b> | 30W 240-250V S15s Opal   | 30W  | 240-250V | S15s | 221mm  | Opal        | 250 lm        | 50           |
| <b>9007596</b> | 60W 240-250V S15s Opal   | 60W  | 240-250V | S15s | 284mm  | Opal        | 530 lm        | 25           |
| <b>9007565</b> | 40W 220-235V S19 Frosted | 40W  | 230V     | S19  | 310mm  | Frosted     | 335 lm        | 25           |
| <b>9007590</b> | 60W 220-235V S19 Frosted | 60W  | 230V     | S19  | 310mm  | Frosted     | 530 lm        | 25           |
| <b>9007607</b> | 75W 220-235V S19 Frosted | 75W  | 230V     | S19  | 310mm  | Frosted     | 680 lm        | 25           |



- 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

| <b>S14d</b> | <b>35W</b> | <b>60W</b> | <b>120W</b> |
|-------------|------------|------------|-------------|
| L           | 221        | 284        | –           |
| D           | 25         | 25         | –           |
| <b>S14s</b> | <b>35W</b> | <b>60W</b> | <b>120W</b> |
| L           | 300        | 500        | 999         |
| D           | 26         | 26         | 26          |



### LINEAR ARCHITECTURAL

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



**SYLVANIA**

INCANDESCENT | 29  
[www.sylvania-lamps.com](http://www.sylvania-lamps.com)



## Manufacturer's lamp cross reference

| Sylvania                      | Osram                | Philips                  | GE                 |
|-------------------------------|----------------------|--------------------------|--------------------|
| Low Pressure Capsule          | HALOSTAR STARLITE    | CAPSULEline              | QUARTZLINE CAPSULE |
| Low Pressure Capsule ECO      | –                    | EcoHalo Capsule          | –                  |
| Dichroic 35/50                | DECOSTAR             | ACCENTLINE DICHROIC      | PRECISE STANDARD   |
| MR16 COOL BEAM ECO            | –                    | EcoHalo Reflector        |                    |
| Superia 35/50                 | DECOSTAR TITAN       | BRILLIANTline DICHROIC P | RECISE BRIGHT      |
| Coolfit 50                    | DECOSTAR 51 ALU      | BRILLIANTline ALU        | PRECISE ALUTECH    |
| SA111                         | HALOSPOT 111         | ALUline 111              | HALOGEN 111        |
| Hi-Pin                        | HALOPIN              | CLICKLINE                | G9 MAINS TECH      |
| Hi-Pin ECO                    | HALOPIN ECO          | EcoHalo Clickline        | G9 Energy Saver    |
| Hi-SPOT® ES50 Superia ECO     | –                    | –                        | –                  |
| Hi-SPOT® ES50 ECO             | HALOPAR Energy Saver | EcoHalo Reflector        | –                  |
| Hi-SPOT® ES50 / ESD50 Superia | HALOPAR 16           | TWISTLINE 3000h          | MR16 MAINS TECH    |
| Hi-SPOT® ES50 Home            | HALOPAR 16           | TWISTLINE 2000h          | MR16 MAINS START   |
| Hi-SPOT® ES63/ESD63           | –                    | –                        | –                  |
| Hi-SPOT® ES63 ECO             | –                    | –                        | –                  |
| Hi-SPOT® ES111 /ESD111 AG ECO | –                    | –                        | –                  |
| Hi-SPOT® ES111 AG             | –                    | –                        | –                  |

# TUNGSTEN HALOGEN



## LOW VOLTAGE HALOGEN LAMP

|                          |    |               |    |
|--------------------------|----|---------------|----|
| Low Pressure Capsule ECO | 34 | Superia 35/50 | 38 |
| Low Pressure Capsule     | 35 | Coolfit 50    | 39 |
| MR16 COOL BEAM ECO       | 36 | SA111         | 40 |
| Dichroic 35/50           | 37 |               |    |



## MAIN VOLTAGE HALOGEN LAMPS

### Classic ECO Lamps

|                    |    |                             |    |
|--------------------|----|-----------------------------|----|
| Classic ECO A55    | 41 | Classic ECO Candle Twisted  | 44 |
| Classic ECO Ball   | 42 | Classic ECO Candle Bent Tip | 45 |
| Classic ECO Candle | 43 | Classic ECO R50/R63/R80     | 46 |



### Other Lamps

|                               |    |                     |    |
|-------------------------------|----|---------------------|----|
| Hi-Pin G9 ECO                 | 47 | Hi-SPOT® 63 ECO     | 58 |
| Hi-Pin G9                     | 48 | Hi-SPOT® 63         | 59 |
| Hi-SPOT® ES50 Superia ECO     | 49 | Hi-SPOT® 80 ECO     | 60 |
| Hi-SPOT® ES50 ECO             | 50 | Hi-SPOT® 80         | 61 |
| Hi-SPOT® ES50 / ESD50 Superia | 51 | Hi-SPOT® 95 ECO     | 62 |
| Hi-SPOT® ES50 Home            | 52 | Hi-SPOT® 95         | 63 |
| Hi-SPOT® ES63 ECO             | 53 | Hi-SPOT® 120 ECO    | 64 |
| Hi-SPOT® ES63/ESD63           | 54 | Hi-SPOT® 120        | 65 |
| Hi-SPOT® ES111/ESD111 AG ECO  | 55 | Linear Double Ended |    |
| Hi-SPOT® ES111/ESD111 AG      | 56 | 78mm/118mm ECO      | 66 |
| Hi-SPOT® 50                   | 57 | Linear Double Ended |    |
|                               |    | 189mm/254mm/331mm   | 67 |

## Manufacturer's lamp cross reference

| Sylvania                          | Osram        | Philips                 | GE                    |
|-----------------------------------|--------------|-------------------------|-----------------------|
| Hi-SPOT® 50                       | HALOPAR 16   | PAR 16 HalogenA         | HALOGEN PAR 16        |
| Hi-SPOT® 63                       | HALOPAR 20   | PAR 20 HalogenA         | HALOGEN PAR 20        |
| Hi-SPOT® 63 ECO                   | —            | —                       | —                     |
| Hi-SPOT® 80                       | —            | —                       | HALOGEN PAR 25        |
| Hi-SPOT® 80 ECO                   | —            | —                       | —                     |
| Hi-SPOT® 95                       | HALOPAR 30   | PAR 30S HalogenA        | HALOGEN PAR 30        |
| Hi-SPOT® 95 ECO                   | —            | —                       | —                     |
| Hi-SPOT® 120                      | HALOPAR 38   | PAR 38 HalogenA         | HALOGEN PAR 38        |
| Hi-SPOT® 120 ECO                  | —            | —                       | —                     |
| Linear Double Ended 78/118mm ECO  | HALOLINE ECO | EcoHalo Linear          | Linear Energy Saver   |
| Linear Double Ended 189/254/331mm | HALOLINE     | Linear T3               | Linear Halogen        |
| Classic ECO A55                   | CLASSIC A    | EcoClassic30            | HaloGLS               |
| Classic ECO Ball                  | CLASSIC B    | EcoCLASSIC30 Lustre     | HaloSpherical         |
| Classic ECO Candle                | CLASSIC P    | EcoCLASSIC30 Candle     | HaloCandle            |
| Classic ECO Candle Twisted        | CLASSIC BW   | EcoCLASSIC30 DecoCandle | —                     |
| Classic ECO R50/R63/R80           | Halogen SPOT | EcoCLASSIC30 Reflector  | HaloReflector Classic |
| Classic ECO Candle Bent Tip       | —            | —                       | —                     |



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.

SYLVANIA offers an attractive range of halogen lamps in mains voltage (230V-240V) and low voltage (12V) categories.

Mains voltage halogen lamps operate direct from the mains, without the need for a transformer, and can be dimmed: making them quick and easy to install, simple to operate and lowering installation and user costs.

All Hi-SPOT® mains voltage halogen lamps are rated UV-Stop and are manufactured from materials which dramatically reduce UV emissions.

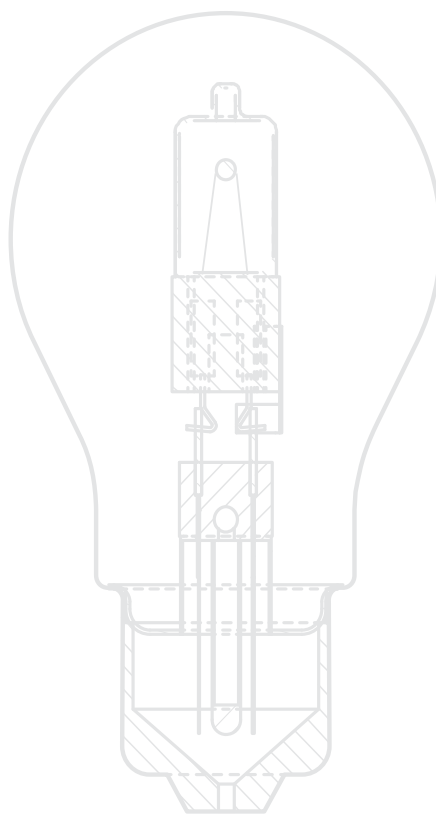
Low voltage halogen lamps operate on step-down transformers, to lower mains voltage to approximately 12V and are also fully dimmable.

High light intensity and long life make it an ideal lamp for accent lighting, task lighting and spotlight application.

SYLVANIA also offers a wide range of energy saving halogen lamps to cater both domestic and professional application in mains and low voltage categories.

SYLVANIA halogen lamps are designed to meet all safety norms, deliver the best performance and excel the customer expectation.

Save on **ENERGY** - not on **LIGHT QUALITY**.





#### LOW PRESSURE CAPSULES ECO

The smallest low voltage lamps.  
The same light output at 20% lower energy consumption.



#### MR16 COOL BEAM ECO

Energy saving alternative for standard MR16 halogen lamps without compromising on light quality.

High intensity, crisp light output combined with 20% less energy consumption makes it an ideal lamp for domestic and commercial application



#### CLASSIC ECO

Halogen Classic ECO lamps are an efficient replacement of conventional incandescent lamps.

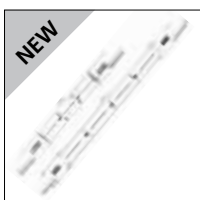
Two times longer average life and excellent colour rendering makes it an ideal replacement lamp.

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.



#### HI-PIN G9 ECO

Halogen Hi-Pin G9 ECO is a range of energy saving lamps, which offer a 30% energy reduction, high luminous efficiency and sparkling light output, making them an ideal replacement for the standard G9 range.



#### LINEAR DOUBLE ENDED 78MM/118MM ECO

The Halogen Double Ended ECO is a range of energy-efficient lamps offering 20% energy savings with the same light output as standard halogen double ended lamps.



#### HI-SPOT ES50 SUPERIA ECO

Hi-SPOT Superia Eco sets a new standard with a product that sparkles in its superiority. With the outstanding performance of the Hi-SPOT Superia Eco, Sylvania confirms its commitment to the environment by extending the range of ecologically friendly products, saving energy and reducing CO<sub>2</sub> emissions.

HI-SPOT ES50 SUPERIA ECO is a true replacement for standard GU10 lamps, offering 30% energy savings.



#### HI-SPOT® ES50 ECO

HI-SPOT ES50 ECO is a range of high performance GU10 lamps, offering 20% energy saving with the same light intensity as standard halogen GU10 lamps.

The Ideal product for domestic and commercial application.



#### HI-SPOT ECO

The HI-SPOT ECO is the best replacement for halogen PAR range.

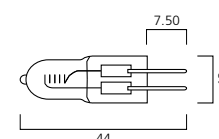
With the same amount of light intensity at 20% lower energy consumption makes it the ideal solution for commercial and domestic application.

## LOW PRESSURE CAPSULES ECO



- Xenon technology
- 20% energy saving with same light output compared to standard capsules
- 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 and discotheque lighting
- Less CO<sub>2</sub> emissions - ECO Friendly
- Less heat generation than standard halogen capsules - more design freedom for luminaire manufacturers
- Excellent colour rendering (CRI=100)

GY 6.35



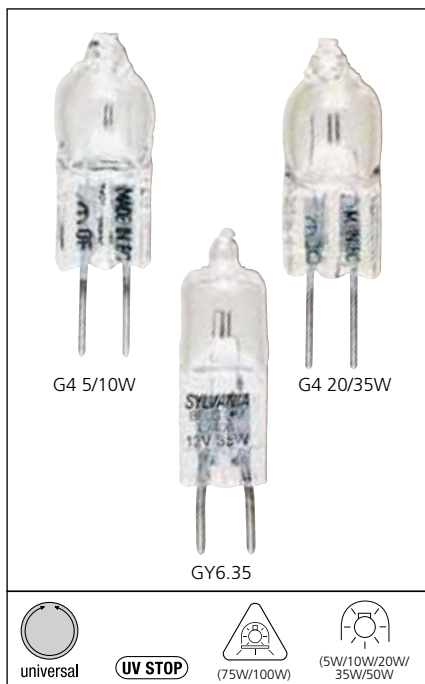
| Wattage Comparison |   |     |
|--------------------|---|-----|
| 28W                | = | 35W |
| 40W                | = | 50W |

## LOW PRESSURE CAPSULES ECO

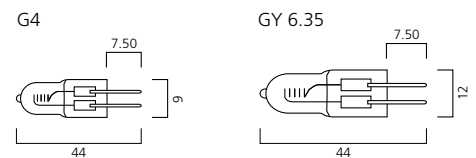
| Code    | Description            | Watt | Volt | Cap    | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|---------|------------------------|------|------|--------|-------------|---------------|--------------------|--------------|
| 0021320 | 12V LP CAPS GY6.35 ECO | 28W  | 12V  | GY6.35 | 2800        | 500 lm        | 2000 hrs           | 50           |
| 0021321 | 12V LP CAPS GY6.35 ECO | 40W  | 12V  | GY6.35 | 2800        | 900 lm        | 2000 hrs           | 50           |



## LOW PRESSURE CAPSULE



- 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.
- Interior display, shop windows, restaurants and discotheque lighting
- Precision task lighting
- Excellent colour rendering (CRI=100)



## LOW PRESSURE CAPSULE

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

\* High performance - pressure

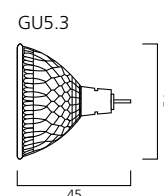


## MR16 COOL BEAM ECO



- 20% energy saving
- Same light intensity as standard MR16 lamps.
- Cool beam - 66% of the heat produced is radiated through the back of the lamp
- Less CO<sub>2</sub> emissions - ECO Friendly
- Less heat generation.
- Dimmable using a suitable dimmer for operation with a transformer
- Constant colour and light output throughout lamp life
- Excellent colour rendering
- 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)

| 10°    |    | 16W    | 28W    | 40W    |
|--------|----|--------|--------|--------|
| 175mmØ | 1m | 3600lx | 5000lx | 6000lx |
| 350mmØ | 2m | 900lx  | 1250lx | 1500lx |
| 525mmØ | 3m | 400lx  | 555lx  | 666lx  |
| 700mmØ | 4m | 225lx  | 312lx  | 375lx  |



### Wattage Comparison

|     |   |     |
|-----|---|-----|
| 16W | = | 20W |
| 28W | = | 35W |
| 40W | = | 50W |

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

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

## MR16 COOL BEAM ECO

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

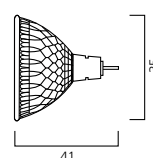


## DICHROIC 35/50

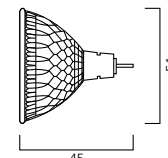


- Cool beam – 66% of the heat produced is radiated through the back of the lamp
- Dimmable using a suitable dimmer for operation with a transformer
- Constant colour and light output throughout lamp life
- Excellent colour rendering
- Universal burning position
- Accent and decorative lighting in retail,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

GZ4/GU4



GX/GU5.3



Dichroic 50

| 24°     |    | 50W    |
|---------|----|--------|
| 425mmØ  | 1m | 2500lx |
| 850mmØ  | 2m | 625lx  |
| 1275mmØ | 3m | 278lx  |
| 1700mmØ | 4m | 156lx  |

| 60°     |    | 35W   | 50W   |
|---------|----|-------|-------|
| 1155mmØ | 1m | 700lx | 900lx |
| 2309mmØ | 2m | 175lx | 225lx |
| 3464mmØ | 3m | 78lx  | 100lx |
| 4619mmØ | 4m | 44lx  | 56lx  |

Dichroic 35

| 10°    |    | 20W    | 35W    |
|--------|----|--------|--------|
| 175mmØ | 1m | 3600lx | 5700lx |
| 350mmØ | 2m | 900lx  | 1425lx |
| 525mmØ | 3m | 400lx  | 633lx  |
| 700mmØ | 4m | 225lx  | 356lx  |

Dichroic 50

| 10°    |    | 20W    | 35W    | 50W    |
|--------|----|--------|--------|--------|
| 175mmØ | 1m | 3600lx | 5000lx | 8000lx |
| 350mmØ | 2m | 900lx  | 1250lx | 2000lx |
| 525mmØ | 3m | 400lx  | 556lx  | 889lx  |
| 700mmØ | 4m | 225lx  | 313lx  | 500lx  |

| 38°     |    | 20W   | 35W    | 50W    |
|---------|----|-------|--------|--------|
| 689mmØ  | 1m | 660lx | 1200lx | 1950lx |
| 1377mmØ | 2m | 165lx | 300lx  | 488lx  |
| 2066mmØ | 3m | 73lx  | 133lx  | 217lx  |
| 2755mmØ | 4m | 41lx  | 75lx   | 122lx  |

## DICHROIC 35/50

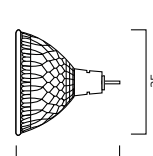
| Code               | Description         | Watt | Volt | Beam Angle | Cap   | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|--------------------|---------------------|------|------|------------|-------|-------------|--------------------|--------------------|--------------|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

## SUPERIA 35/50

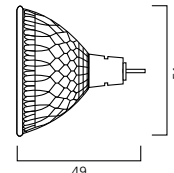


- Cool Beam – 66% of the heat produced is radiated through the back of the lamp
- Spiral reflector, uniform beam pattern, patented design
- Constant colour and light output throughout lamp life
- No colour variation between lamps
- 25% longer life + 25% more light output
- Professional lighting of objects 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)

GZ4/GU4



GX/GU5.3



Superia 50

|     |    | 20W    | 35W    | 50W     |
|-----|----|--------|--------|---------|
| 10° | 1m | 4000lx | 7700lx | 11500lx |
|     | 2m | 1000lx | 1925lx | 2850lx  |
|     | 3m | 444lx  | 855lx  | 1278lx  |
|     | 4m | 250lx  | 481lx  | 719lx   |

|     |    | 50W    |
|-----|----|--------|
| 24° | 1m | 2500lx |
|     | 2m | 625lx  |
|     | 3m | 278lx  |
|     | 4m | 156lx  |

Superia 35

|     |    | 20W   | 35W    |
|-----|----|-------|--------|
| 38° | 1m | 700lx | 1350lx |
|     | 2m | 175lx | 338lx  |
|     | 3m | 78lx  | 180lx  |
|     | 4m | 44lx  | 84lx   |

|     |    | 20W   | 35W    | 50W    |
|-----|----|-------|--------|--------|
| 38° | 1m | 790lx | 1450lx | 2250lx |
|     | 2m | 198lx | 363lx  | 563lx  |
|     | 3m | 88lx  | 161lx  | 250lx  |
|     | 4m | 49lx  | 91lx   | 141lx  |

|     |    | 50W    |
|-----|----|--------|
| 60° | 1m | 1000lx |
|     | 2m | 250lx  |
|     | 3m | 111lx  |
|     | 4m | 62.5lx |

## SUPERIA 35/50

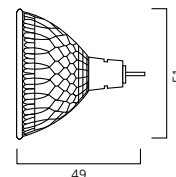
| Code              | Description         | Watt | Volt | Beam Angle | Cap   | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------|---------------------|------|------|------------|-------|-------------|--------------------|--------------------|--------------|
| <b>Superia 35</b> |                     |      |      |            |       |             |                    |                    |              |
| 0022338           | FTD 12V 20W WFL38°  | 20W  | 12V  | 38°        | GU4   | 2925K       | 700 cd             | 4000 hrs           | 10           |
| 0022341           | FTH 12V 35W WFL38°  | 35W  | 12V  | 38°        | GU4   | 3000K       | 1350 cd            | 4000 hrs           | 10           |
| <b>Superia 50</b> |                     |      |      |            |       |             |                    |                    |              |
| 0022301           | ESX 12V 20W SP10°   | 20W  | 12V  | 10°        | GU5.3 | 2925K       | 4000 cd            | 5000 hrs           | 10           |
| 0022302           | BAB 12V 20W WFL38°  | 20W  | 12V  | 38°        | GU5.3 | 2925K       | 790 cd             | 5000 hrs           | 10           |
| 0022305           | FMT 12V 35W SP10°   | 35W  | 12V  | 10°        | GU5.3 | 3000K       | 7700 cd            | 5000 hrs           | 10           |
| 0022306           | FMW 12V 35W WFL38°  | 35W  | 12V  | 38°        | GU5.3 | 3000K       | 1450 cd            | 5000 hrs           | 10           |
| 0022311           | EXT 12V 50W SP10°   | 50W  | 12V  | 10°        | GU5.3 | 3050K       | 11500 cd           | 5000 hrs           | 10           |
| 0022312           | EXZ 12V 50W FL24°   | 50W  | 12V  | 24°        | GU5.3 | 3050K       | 3600 cd            | 5000 hrs           | 10           |
| 0022314           | EXN 12V 50W WFL38°  | 50W  | 12V  | 38°        | GU5.3 | 3050K       | 2250 cd            | 5000 hrs           | 10           |
| 0022315           | FNV 12V 50W VWFL60° | 50W  | 12V  | 60°        | GU5.3 | 3050K       | 1000 cd            | 5000 hrs           | 10           |

## COOLFIT 50



- Virtually all heat and light dissipated away from back of the lamp keeping fixture cool and therefore safer, particularly suitable for use in fire rated downlights
- 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)

GX/GU5.3



Coolfit 50

| 38°     |    | 20W   | 35W    | 50W    |
|---------|----|-------|--------|--------|
| 689mmØ  | 1m | 660lx | 1200lx | 1950lx |
| 1377mmØ | 2m | 165lx | 300lx  | 488lx  |
| 2066mmØ | 3m | 73lx  | 133lx  | 217lx  |
| 2755mmØ | 4m | 41lx  | 75lx   | 122lx  |

| 60°     |    | 50W   |
|---------|----|-------|
| 1155mmØ | 1m | 900lx |
| 2309mmØ | 2m | 225lx |
| 3464mmØ | 3m | 100lx |
| 4619mmØ | 4m | 56lx  |

## COOLFIT 50

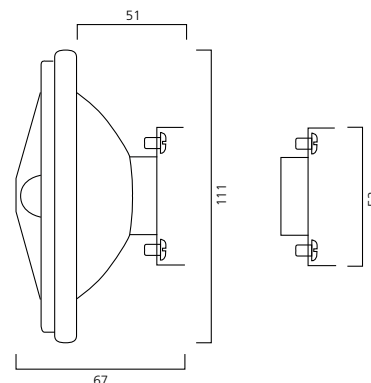
| Code              | Description            | Watt | Volt | Beam Angle | Cap   | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------|------------------------|------|------|------------|-------|-------------|--------------------|--------------------|--------------|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



## SA111



- 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)



| 8°     |    | 50W    | 75W    | 100W   |
|--------|----|--------|--------|--------|
| 140mmØ | 1m | 2300lx | 3000lx | 4800lx |
| 280mmØ | 2m | 575lx  | 750lx  | 1200lx |
| 420mmØ | 3m | 256lx  | 333lx  | 533lx  |
| 559mmØ | 4m | 143lx  | 187lx  | 300lx  |

| 24°     |    | 50W    | 75W    | 100W   |
|---------|----|--------|--------|--------|
| 425mmØ  | 1m | 4000lx | 5300lx | 8500lx |
| 850mmØ  | 2m | 1000lx | 1325lx | 2125lx |
| 1275mmØ | 3m | 444lx  | 589lx  | 944lx  |
| 1700mmØ | 4m | 250lx  | 331lx  | 531lx  |

| 45°     |    | 20W    | 35W    | 50W    |
|---------|----|--------|--------|--------|
| 828mmØ  | 1m | 1200lx | 1700lx | 2800lx |
| 1657mmØ | 2m | 300lx  | 425lx  | 700lx  |
| 2485mmØ | 3m | 133lx  | 189lx  | 311lx  |
| 3314mmØ | 4m | 75lx   | 106lx  | 175lx  |

## SA111

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

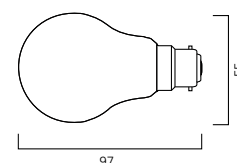
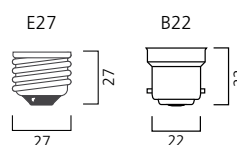
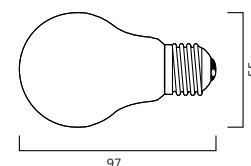


# CLASSIC ECO

A55



- 1:1 replacement of Incandescent A55 lamp
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable



| Wattage Comparison |       |
|--------------------|-------|
| 18W                | = 21W |
| 28W                | = 35W |
| 42W D              | = 53W |
| 42W C              | = 55W |
| 53W                | = 70W |
| 70W                | = 92W |

## CLASSIC ECO A55

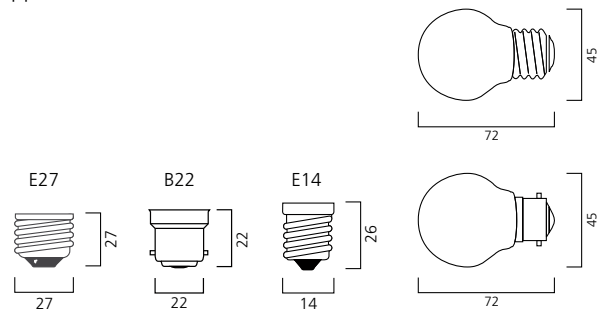
| Code    | Description        | Watt | Volt | Cap | Colour Temp | Luminous Flux | Energy Class | Average Rated Life | Packing Qty. |
|---------|--------------------|------|------|-----|-------------|---------------|--------------|--------------------|--------------|
| 0023128 | A55 18W 230V E27   | 18W  | 230V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023129 | A55 18W 230V B22   | 18W  | 230V | B22 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023130 | A55 18W 240V E27   | 18W  | 240V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023131 | A55 18W 240V B22   | 18W  | 240V | B22 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023087 | A55 28W 230V E27   | 28W  | 230V | E27 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023088 | A55 28W 230V B22   | 28W  | 230V | B22 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023089 | A55 28W 240V E27   | 28W  | 240V | E27 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023090 | A55 28W 240V B22   | 28W  | 240V | B22 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023083 | A55 42W 230V E27   | 42W  | 230V | E27 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023084 | A55 42W 230V B22   | 42W  | 230V | B22 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023085 | A55 42W 240V E27   | 42W  | 240V | E27 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023086 | A55 42W 240V B22   | 42W  | 240V | B22 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023765 | A55 42W 230V E27 C | 42W  | 230V | E27 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023766 | A55 42W 230V B22 C | 42W  | 230V | B22 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023767 | A55 42W 240V E27 C | 42W  | 240V | E27 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023768 | A55 42W 240V B22 C | 42W  | 240V | B22 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023132 | A55 53W 230V E27   | 53W  | 230V | E27 | 2800K       | 850 lm        | C            | 2000 hrs           | 10           |
| 0023133 | A55 53W 230V B22   | 53W  | 230V | B22 | 2800K       | 850 lm        | C            | 2000 hrs           | 10           |
| 0023134 | A55 53W 240V E27   | 53W  | 240V | E27 | 2800K       | 850 lm        | C            | 2000 hrs           | 10           |
| 0023135 | A55 53W 240V B22   | 53W  | 240V | B22 | 2800K       | 850 lm        | C            | 2000 hrs           | 10           |
| 0023136 | A55 70W 230V E27   | 70W  | 230V | E27 | 2800K       | 1200 lm       | C            | 2000 hrs           | 10           |
| 0023137 | A55 70W 230V B22   | 70W  | 230V | B22 | 2800K       | 1200 lm       | C            | 2000 hrs           | 10           |
| 0023138 | A55 70W 240V E27   | 70W  | 240V | E27 | 2800K       | 1200 lm       | C            | 2000 hrs           | 10           |
| 0023139 | A55 70W 240V B22   | 70W  | 240V | B22 | 2800K       | 1200 lm       | C            | 2000 hrs           | 10           |

# CLASSIC ECO

## Ball



- 1:1 replacement of Incandescent Ball lamp
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable



| Wattage Comparison |       |
|--------------------|-------|
| 18W                | = 21W |
| 28W                | = 35W |
| 42W D              | = 53W |
| 42W C              | = 55W |

## CLASSIC ECO BALL

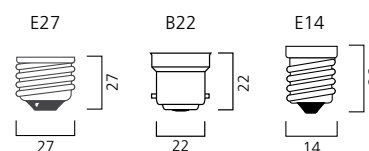
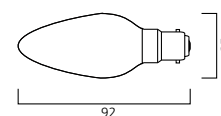
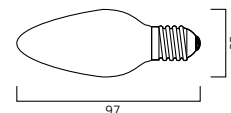
| Code    | Description         | Watt | Volt | Cap | Colour Temp | Luminous Flux | Energy Class | Average Rated Life | Packing Qty. |
|---------|---------------------|------|------|-----|-------------|---------------|--------------|--------------------|--------------|
| 0023140 | Ball 18W 230V E14   | 18W  | 230V | E14 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023141 | Ball 18W 230V E27   | 18W  | 230V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023142 | Ball 18W 240V E14   | 18W  | 240V | E14 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023143 | Ball 18W 240V E27   | 18W  | 240V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023144 | Ball 18W 240V B22   | 18W  | 240V | B22 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023109 | Ball 28W 230V E14   | 28W  | 230V | E14 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023111 | Ball 28W 230V E27   | 28W  | 230V | E27 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023110 | Ball 28W 240V E14   | 28W  | 240V | E14 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023112 | Ball 28W 240V E27   | 28W  | 240V | E27 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023113 | Ball 28W 240V B22   | 28W  | 240V | B22 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023105 | Ball 42W 230V E14   | 42W  | 230V | E14 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023107 | Ball 42W 230V E27   | 42W  | 230V | E27 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023106 | Ball 42W 240V E14   | 42W  | 240V | E14 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023108 | Ball 42W 240V E27   | 42W  | 240V | E27 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023114 | Ball 42W 240V B22   | 42W  | 240V | B22 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023776 | Ball 42W 230V E14 C | 42W  | 230V | E14 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023777 | Ball 42W 240V E14 C | 42W  | 240V | E14 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023778 | Ball 42W 230V E27 C | 42W  | 230V | E27 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023779 | Ball 42W 240V E27 C | 42W  | 240V | E27 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023780 | Ball 42W 240V B22 C | 42W  | 240V | B22 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |

## CLASSIC ECO

### Candle



- 1:1 replacement of Incandescent Candle lamp
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> emissions
- Identical shape as standard incandescent lamp
- Commercial and domestic application
- 100% dimmable



| Wattage Comparison |       |
|--------------------|-------|
| 18W                | = 21W |
| 28W                | = 35W |
| 42W D              | = 53W |
| 42W C              | = 55W |

### CLASSIC ECO CANDLE

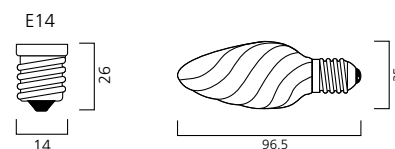
| Code    | Description           | Watt | Volt | Cap | Colour Temp | Luminous Flux | Energy Class | Average Rated Life | Packing Qty. |
|---------|-----------------------|------|------|-----|-------------|---------------|--------------|--------------------|--------------|
| 0023095 | Candle 18W 230V E14   | 18W  | 230V | E14 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023096 | Candle 18W 230V E27   | 18W  | 230V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023097 | Candle 18W 240V E14   | 18W  | 240V | E14 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023098 | Candle 18W 240V E27   | 18W  | 240V | E27 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023099 | Candle 18W 240V B22   | 18W  | 240V | B22 | 2800K       | 180 lm        | D            | 2000 hrs           | 10           |
| 0023093 | Candle 28W 230V E14   | 28W  | 230V | E14 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023094 | Candle 28W 240V E14   | 28W  | 240V | E14 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023116 | Candle 28W 240V B22   | 28W  | 240V | B22 | 2800K       | 345 lm        | D            | 2000 hrs           | 10           |
| 0023091 | Candle 42W 230V E14   | 42W  | 230V | E14 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023092 | Candle 42W 240V E14   | 42W  | 240V | E14 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023118 | Candle 42W 240V B22   | 42W  | 240V | B22 | 2800K       | 600 lm        | D            | 2000 hrs           | 10           |
| 0023771 | Candle 42W 230V E14 C | 42W  | 230V | E14 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023772 | Candle 42W 240V E14 C | 42W  | 240V | E14 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023773 | Candle 42W 240V E27 C | 42W  | 240V | E27 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |
| 0023774 | Candle 42W 240V B22 C | 42W  | 240V | B22 | 2800K       | 630 lm        | C            | 2000 hrs           | 10           |

## CLASSIC ECO

### Candle Twisted



- Decorative halogen candle twisted lamp
- 1:1 replacement of Incandescent lamp
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> emissions
- Identical shape as standard incandescent lamp
- For chandeliers and decorative fixtures in domestic and commercial application
- 100% dimmable



#### Wattage Comparison

|       |   |     |
|-------|---|-----|
| 18W   | = | 21W |
| 28W   | = | 35W |
| 42W C | = | 55W |

#### CLASSIC ECO CANDLE TWISTED

| Code    | Description            | Watt | Volt | Cap | Colour Temp | Luminous Flux | Energy Class | Average Rated Life | Packing Qty. |
|---------|------------------------|------|------|-----|-------------|---------------|--------------|--------------------|--------------|
| 0023449 | Candle TW 18W 230V E14 | 18W  | 230V | E14 | 2800K       | 180lm         | D            | 2000 hrs           | 10           |
| 0023450 | Candle TW18W 240V E14  | 18W  | 240V | E14 | 2800K       | 180lm         | D            | 2000 hrs           | 10           |
| 0023451 | Candle TW 28W 230V E14 | 28W  | 230V | E14 | 2800K       | 345lm         | D            | 2000 hrs           | 10           |
| 0023452 | Candle TW 28W 240V E14 | 28W  | 240V | E14 | 2800K       | 345lm         | D            | 2000 hrs           | 10           |
| 0023455 | Candle TW42W 230V E14  | 42W  | 230V | E14 | 2800K       | 630lm         | C            | 2000 hrs           | 10           |
| 0023456 | Candle TW 42W 240V E14 | 42W  | 240V | E14 | 2800K       | 630lm         | C            | 2000 hrs           | 10           |

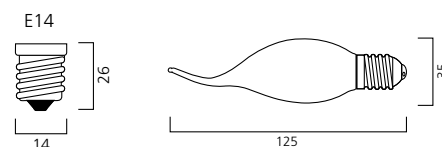


## CLASSIC ECO

### Candle Bent Tip



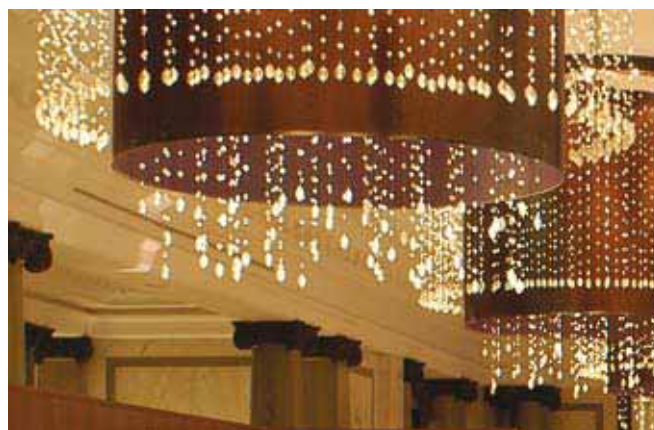
- Decorative halogen candle Bent Tip lamp
- 1:1 replacement of Incandescent lamp
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Sparkling light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> emissions
- Identical shape as standard incandescent lamp
- For chandeliers and decorative fixtures in domestic and commercial application
- 100% dimmable



| Wattage Comparison |   |     |
|--------------------|---|-----|
| 18W                | = | 21W |
| 28W                | = | 35W |

### CLASSIC ECO CANDLE BENT TIP

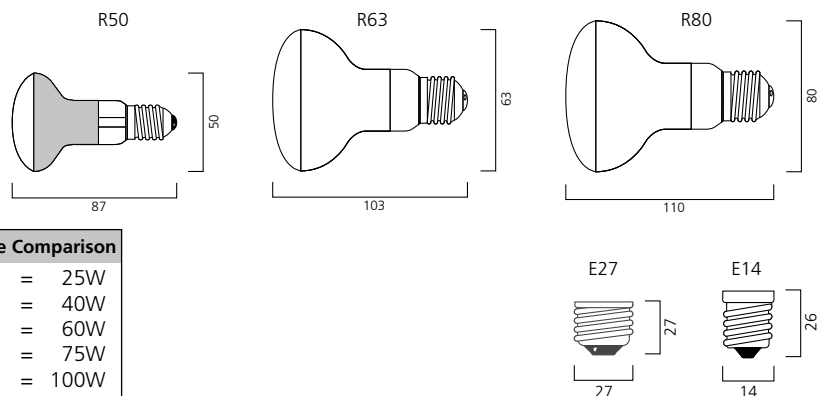
| Code    | Description            | Watt | Volt | Cap | Colour Temp | Luminous Flux | Energy Class | Average Rated Life | Packing Qty. |
|---------|------------------------|------|------|-----|-------------|---------------|--------------|--------------------|--------------|
| 0023465 | Candle BT 18W 230V E14 | 18W  | 230V | E14 | 2800K       | 180lm         | D            | 2000 hrs           | 10           |
| 0023466 | Candle BT18W 240V E14  | 18W  | 240V | E14 | 2800K       | 180lm         | D            | 2000 hrs           | 10           |
| 0023467 | Candle BT 28W 230V E14 | 28W  | 230V | E14 | 2800K       | 345lm         | D            | 2000 hrs           | 10           |
| 0023468 | Candle BT 28W 240V E14 | 28W  | 240V | E14 | 2800K       | 345lm         | D            | 2000 hrs           | 10           |



## CLASSIC ECO R50/R63/80



- 1:1 replacement of Incandescent reflector lamps
- More efficient - more savings
- Two times more average life compared to incandescent lamps = 2000 hours
- Excellent colour rendering (CRI = 100)
- Instant illumination
- Crisp light output
- Less heat generation than incandescent lamp
- Less CO<sub>2</sub> 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



| Wattage Comparison |        |
|--------------------|--------|
| 18W                | = 25W  |
| 28W                | = 40W  |
| 42W                | = 60W  |
| 53W                | = 75W  |
| 70W                | = 100W |

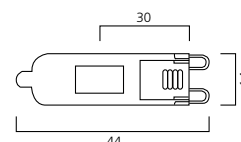
### CLASSIC ECO R50/R63/R80

| Code                   | Description            | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|------------------------|------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Classic ECO R50</b> |                        |      |      |            |     |             |                    |                    |              |
| 0023102                | R50 18W 230V E14 FL30° | 18W  | 230V | 30°        | E14 | 2800K       | 200 cd             | 2000 hrs           | 10           |
| 0023103                | R50 18W 240V E14 FL30° | 18W  | 240V | 30°        | E14 | 2800K       | 200 cd             | 2000 hrs           | 10           |
| 0023120                | R50 28W 230V E14 FL30° | 28W  | 230V | 30°        | E14 | 2800K       | 335 cd             | 2000 hrs           | 10           |
| 0023121                | R50 28W 240V E14 FL30° | 28W  | 240V | 30°        | E14 | 2800K       | 335 cd             | 2000 hrs           | 10           |
| <b>Classic ECO R63</b> |                        |      |      |            |     |             |                    |                    |              |
| 0023124                | R63 28W 230V E27 FL30° | 28W  | 230V | 30°        | E27 | 2800K       | 335 cd             | 2000 hrs           | 10           |
| 0023125                | R63 28W 240V E27 FL30° | 28W  | 240V | 30°        | E27 | 2800K       | 335 cd             | 2000 hrs           | 10           |
| 0023122                | R63 42W 230V E27 FL30° | 42W  | 230V | 30°        | E27 | 2800K       | 570 cd             | 2000 hrs           | 10           |
| 0023123                | R63 42W 240V E27 FL30° | 42W  | 240V | 30°        | E27 | 2800K       | 570 cd             | 2000 hrs           | 10           |
| <b>Classic ECO R80</b> |                        |      |      |            |     |             |                    |                    |              |
| 0023127                | R80 28W 240V E27 FL30° | 28W  | 240V | 30°        | E27 | 2800K       | 335 cd             | 2000 hrs           | 10           |
| 0023126                | R80 42W 240V E27 FL30° | 42W  | 240V | 30°        | E27 | 2800K       | 570 cd             | 2000 hrs           | 10           |
| 0023147                | R80 53W 240V E27 FL30° | 53W  | 240V | 30°        | E27 | 2800K       | 750 cd             | 2000 hrs           | 10           |
| 0023148                | R80 70W 240V E27 FL30° | 70W  | 240V | 30°        | E27 | 2800K       | 1080 cd            | 2000 hrs           | 10           |

## HI-PIN G9 ECO



- Xenon technology
- 30% energy saving
- Average life of 2000 hours
- Less CO<sub>2</sub> 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



| Wattage Comparison |       |
|--------------------|-------|
| 18W                | = 25W |
| 28W                | = 40W |
| 42W                | = 60W |
| 53W                | = 75W |

### HI-PIN G9 ECO

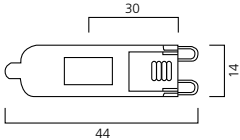
| Code                 | Description            | Watt | Volt | Cap | Lamp Finish | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|----------------------|------------------------|------|------|-----|-------------|-------------|--------------------|--------------------|--------------|
| <b>Hi-Pin G9 ECO</b> |                        |      |      |     |             |             |                    |                    |              |
| <b>0022840</b>       | Hi-Pin G9 ECO 18W 230V | 18W  | 230V | G9  | Clear       | 2800K       | 180 lm             | 2000 hrs           | 10           |
| <b>0022841</b>       | Hi-Pin G9 ECO 18W 240V | 18W  | 240V | G9  | Clear       | 2800K       | 180 lm             | 2000 hrs           | 10           |
| <b>0022842</b>       | Hi-Pin G9 ECO 28W 230V | 28W  | 230V | G9  | Clear       | 2800K       | 345 lm             | 2000 hrs           | 10           |
| <b>0022843</b>       | Hi-Pin G9 ECO 28W 240V | 28W  | 240V | G9  | Clear       | 2800K       | 345 lm             | 2000 hrs           | 10           |
| <b>0022844</b>       | Hi-Pin G9 ECO 42W 230V | 42W  | 230V | G9  | Clear       | 2800K       | 630 lm             | 2000 hrs           | 10           |
| <b>0022845</b>       | Hi-Pin G9 ECO 42W 240V | 42W  | 240V | G9  | Clear       | 2800K       | 630 lm             | 2000 hrs           | 10           |
| <b>0022846</b>       | Hi-Pin G9 ECO 53W 230V | 53W  | 230V | G9  | Clear       | 2800K       | 850 lm             | 2000 hrs           | 10           |
| <b>0022847</b>       | Hi-Pin G9 ECO 53W 240V | 53W  | 240V | G9  | Clear       | 2800K       | 850 lm             | 2000 hrs           | 10           |



# HI-PIN G9



- Average life of 2000 hours
- Compact size
- Integral safety fuse
- Suitable for use in open luminaires following Luminaire Standard EN 60598-1
- Available in both clear and frosted finish
- Easy installation with G9 plug-in base



## HI-PIN G9

| Code             | Description              | Watt | Volt | Cap | Lamp Finish | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|------------------|--------------------------|------|------|-----|-------------|-------------|--------------------|--------------------|--------------|
| <b>Hi-Pin G9</b> |                          |      |      |     |             |             |                    |                    |              |
| 0022801          | Hi-Pin G9 25W/230V Clear | 25W  | 230V | G9  | Clear       | 2800K       | 240 lm             | 2000 hrs           | 10           |
| 0022803          | Hi-Pin G9 40W/230V Clear | 40W  | 230V | G9  | Clear       | 2800K       | 440 lm             | 2000 hrs           | 10           |
| 0022805*         | Hi-Pin G9 60W/230V Clear | 60W  | 230V | G9  | Clear       | 2800K       | 740 lm             | 2000 hrs           | 10           |
| 0022802          | Hi-Pin G9 25W/240V Clear | 25W  | 240V | G9  | Clear       | 2800K       | 240 lm             | 2000 hrs           | 10           |
| 0022804          | Hi-Pin G9 40W/240V Clear | 40W  | 240V | G9  | Clear       | 2800K       | 440 lm             | 2000 hrs           | 10           |
| 0022806*         | Hi-Pin G9 60W/240V Clear | 60W  | 240V | G9  | Clear       | 2800K       | 740 lm             | 2000 hrs           | 10           |

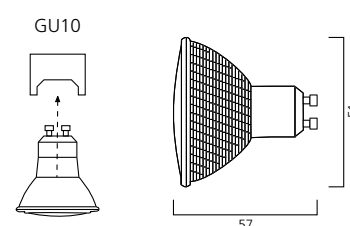
\* Affected by EUP as from September 2010



# HI-SPOT® ES50 SUPERIA ECO



- Xenon technology
- 30% energy savings compared to standard halogen GU10 lamps.
- Average life of 3000 hours
- Uniform, symmetrical light beam
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- Unique, patented, spiral faceted aluminised reflector
- Crisp light
- High luminous intensity
- 100% dimmable
- Less heat generation
- Integral safety fuse.
- Transformer free operation



| 20°     |    | 35W    | 50W    |
|---------|----|--------|--------|
| 353mmØ  | 1m | 1200lx | 2000lx |
| 705mmØ  | 2m | 300lx  | 500lx  |
| 1058mmØ | 3m | 133lx  | 222lx  |
| 1411mmØ | 4m | 75lx   | 125lx  |

| 40°     |    | 35W   | 50W   |
|---------|----|-------|-------|
| 728mmØ  | 1m | 500lx | 900lx |
| 1456mmØ | 2m | 125lx | 225lx |
| 2184mmØ | 3m | 56lx  | 100lx |
| 2918mmØ | 4m | 31lx  | 56lx  |

| Wattage Comparison |       |
|--------------------|-------|
| 35W                | = 50W |
| 50W                | = 75W |

## HI-SPOT® ES50 SUPERIA ECO

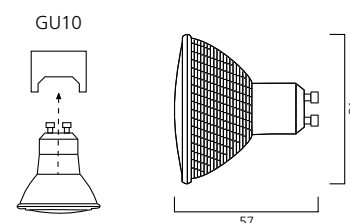
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|---------------------------------|-----------------------------|------|------|------------|------|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT ES50 SUPERIA ECO</b> |                             |      |      |            |      |             |                    |                    |              |
| <b>0022920</b>                  | ES50 Superia ECO 35W FL20°  | 35W  | 230V | 20°        | GU10 | 2750K       | 1200 cd            | 3000 hrs           | 10           |
| <b>0022875</b>                  | ES50 Superia ECO 35W WFL40° | 35W  | 230V | 40°        | GU10 | 2750K       | 500 cd             | 3000 hrs           | 10           |
| <b>0022922</b>                  | ES50 Superia ECO 35W FL20°  | 35W  | 240V | 20°        | GU10 | 2750K       | 1200 cd            | 3000 hrs           | 10           |
| <b>0022877</b>                  | ES50 Superia ECO 35W WFL40° | 35W  | 240V | 40°        | GU10 | 2750K       | 500 cd             | 3000 hrs           | 10           |
| <b>0022921</b>                  | ES50 Superia ECO 50W FL20°  | 50W  | 230V | 20°        | GU10 | 2800K       | 2000 cd            | 3000 hrs           | 10           |
| <b>0022876</b>                  | ES50 Superia ECO 50W WFL40° | 50W  | 230V | 40°        | GU10 | 2800K       | 900 cd             | 3000 hrs           | 10           |
| <b>0022923</b>                  | ES50 Superia ECO 50W FL20°  | 50W  | 240V | 20°        | GU10 | 2800K       | 2000 cd            | 3000 hrs           | 10           |
| <b>0022878</b>                  | ES50 Superia ECO 50W WFL40° | 50W  | 240V | 40°        | GU10 | 2800K       | 900 cd             | 3000 hrs           | 10           |



## HI-SPOT® ES50 ECO



- Xenon technology
- Up to 30% energy savings compared to standard halogen GU10 lamps
- Average life of 2000 hours
- 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



| 25°     |    | 18W   | 28W   | 40W    |
|---------|----|-------|-------|--------|
| 443mmØ  | 1m | 350lx | 600lx | 1000lx |
| 887mmØ  | 2m | 88lx  | 150lx | 250lx  |
| 1330mmØ | 3m | 39lx  | 67lx  | 111lx  |
| 1774mmØ | 4m | 22lx  | 38lx  | 63lx   |

| 50°     |    | 50W   |
|---------|----|-------|
| 933mmØ  | 1m | 500lx |
| 1865mmØ | 2m | 125lx |
| 2798mmØ | 3m | 56lx  |
| 3730mmØ | 4m | 31lx  |

| Wattage Comparison |       |
|--------------------|-------|
| 18W                | = 25W |
| 28W                | = 35W |
| 40W                | = 50W |

## HI-SPOT® ES50 ECO

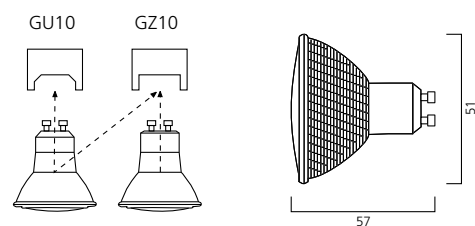
| Code                    | Description                 | Watt | Volt | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------------|-----------------------------|------|------|------------|------|-------------|--------------------|--------------------|--------------|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



# HI-SPOT® ES50/ESD50 SUPERIA



- Unique long life filament – 4000 hours life
- 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



| 25°     |    | 35W   | 50W    |
|---------|----|-------|--------|
| 443mmØ  | 1m | 850lx | 1360lx |
| 887mmØ  | 2m | 213lx | 340lx  |
| 1330mmØ | 3m | 94lx  | 151lx  |
| 1774mmØ | 4m | 53lx  | 85lx   |

| 50°     |    | 50W   |
|---------|----|-------|
| 933mmØ  | 1m | 550lx |
| 1865mmØ | 2m | 138lx |
| 2798mmØ | 3m | 61lx  |
| 3730mmØ | 4m | 34lx  |

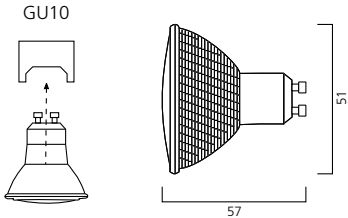
## HI-SPOT® ES50/ESD50 SUPERIA

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

# HI-SPOT® ES50 HOME



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



| 25°     |    | 35W   | 50W    |
|---------|----|-------|--------|
| 443mmØ  | 1m | 500lx | 1100lx |
| 887mmØ  | 2m | 125lx | 275lx  |
| 1330mmØ | 3m | 56lx  | 122lx  |
| 1774mmØ | 4m | 31lx  | 69lx   |

| 50°     |    | 50W   |
|---------|----|-------|
| 933mmØ  | 1m | 500lx |
| 1865mmØ | 2m | 125lx |
| 2798mmØ | 3m | 56lx  |
| 3730mmØ | 4m | 31lx  |

## HI-SPOT® ES50 HOME

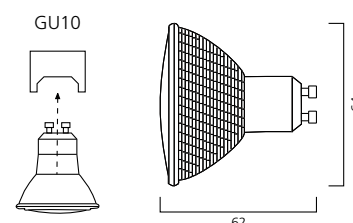
| Code                     | Description             | Watt | Volt     | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|--------------------------|-------------------------|------|----------|------------|------|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT ES50 Home</b> |                         |      |          |            |      |             |                    |                    |              |
| 0021254                  | Hi-SPOT ES50 35W FL25°  | 35W  | 230-240V | 25°        | GU10 | 2700K       | 500 cd             | 2500 hrs           | 10           |
| 0021256                  | Hi-SPOT ES50 50W FL25°  | 50W  | 230-240V | 25°        | GU10 | 2700K       | 1100 cd            | 2500 hrs           | 10           |
| 0021261                  | Hi-SPOT ES50 50W WFL50° | 50W  | 230-240V | 50°        | GU10 | 2700K       | 500 cd             | 2500 hrs           | 10           |



## HI-SPOT® ES63 ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® ES63 with same luminous intensity
- Uniform, symmetrical light beam
- 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, 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
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- Less heat generation



| 25°     |    | 40W    | 60W    |
|---------|----|--------|--------|
| 443mmØ  | 1m | 1500lx | 2500lx |
| 887mmØ  | 2m | 375lx  | 625lx  |
| 1330mmØ | 3m | 167lx  | 278lx  |
| 1774mmØ | 4m | 94lx   | 156lx  |

| 50°     |    | 60W    |
|---------|----|--------|
| 933mmØ  | 1m | 1000lx |
| 1865mmØ | 2m | 250lx  |
| 2798mmØ | 3m | 111lx  |
| 3730mmØ | 4m | 63lx   |

| Wattage Comparison |       |
|--------------------|-------|
| 40W                | = 50W |
| 60W                | = 75W |

## HI-SPOT® ES63 ECO

| Code                     | Description                 | Watt | Volt | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|--------------------------|-----------------------------|------|------|------------|------|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT ES63 ECO*</b> |                             |      |      |            |      |             |                    |                    |              |
| <b>0021192</b>           | Hi-SPOT ES63 ECO 40W FL25°  | 40W  | 230V | 25°        | GU10 | 2750K       | 1500 cd            | 2500 hrs           | 15           |
| <b>0021195</b>           | Hi-SPOT ES63 ECO 40W FL25°  | 40W  | 240V | 25°        | GU10 | 2750K       | 1500 cd            | 2500 hrs           | 15           |
| <b>0021193</b>           | Hi-SPOT ES63 ECO 60W FL25°  | 60W  | 230V | 25°        | GU10 | 2800K       | 2500 cd            | 2500 hrs           | 15           |
| <b>0021196</b>           | Hi-SPOT ES63 ECO 60W FL25°  | 60W  | 240V | 25°        | GU10 | 2800K       | 2500 cd            | 2500 hrs           | 15           |
| <b>0021194</b>           | Hi-SPOT ES63 ECO 60W WFL50° | 60W  | 230V | 50°        | GU10 | 2800K       | 1000 cd            | 2500 hrs           | 15           |
| <b>0021197</b>           | Hi-SPOT ES63 ECO 60W WFL50° | 60W  | 240V | 50°        | GU10 | 2800K       | 1000 cd            | 2500 hrs           | 15           |

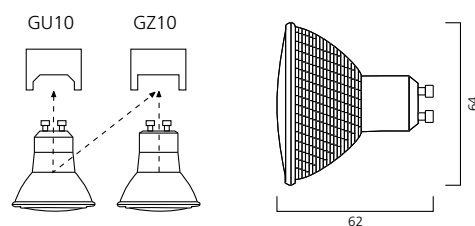
\* To be available from September 2010



## HI-SPOT® ES63/ESD63



- 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



| 25°     |    |        |        |
|---------|----|--------|--------|
|         |    | 50W    | 75W    |
| 443mmØ  | 1m | 1500lx | 2500lx |
| 887mmØ  | 2m | 325lx  | 625lx  |
| 1330mmØ | 3m | 167lx  | 278lx  |
| 1774mmØ | 4m | 94lx   | 156lx  |

| 50°     |    |        |  |
|---------|----|--------|--|
|         |    | 75W    |  |
| 933mmØ  | 1m | 1000lx |  |
| 1865mmØ | 2m | 250lx  |  |
| 2798mmØ | 3m | 111lx  |  |
| 3730mmØ | 4m | 63lx   |  |

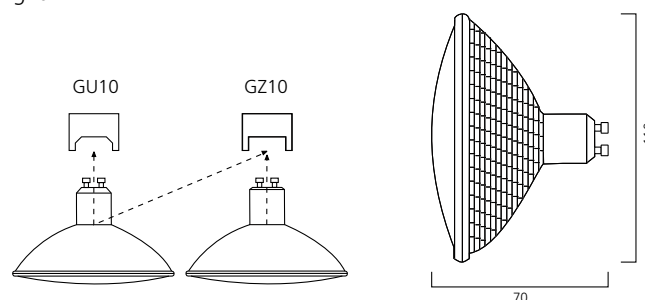
## HI-SPOT® ES63/ESD63

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

# HI-SPOT® ES111 /ESD111 AG ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® ES111/ESD111 with same luminous intensity
- Uniform, Symmetrical light beam
- With Integral anti-glare shield
- High lumen intensity
- 100% dimmable
- Dichroic & Aluminized reflector optical
- For accent or decorative lighting in retail and commercial applications
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- Less heat generation



| 24°     |    |  |
|---------|----|--|
| 425mmØ  | 1m |  |
| 850mmØ  | 2m |  |
| 1275mmØ | 3m |  |
| 1700mmØ | 4m |  |

| Wattage Comparison |        |
|--------------------|--------|
| 60W                | = 75W  |
| 80W                | = 100W |

## HI-SPOT® ES111 /ESD111 AG ECO

| Code                                                | Description                  | Watt | Volt | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-----------------------------------------------------|------------------------------|------|------|------------|------|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT ES111 ECO with anti-glare*</b>           |                              |      |      |            |      |             |                    |                    |              |
| <b>0021264</b>                                      | Hi-SPOT ES111 ECO 60W FL24°  | 60W  | 230V | 24°        | GU10 | 2800K       | 3000 cd            | 2000 hrs           | 15           |
| <b>0021266</b>                                      | Hi-SPOT ES111 ECO 60W FL24°  | 60W  | 240V | 24°        | GU10 | 2800K       | 3000 cd            | 2000 hrs           | 15           |
| <b>Hi-SPOT ESD111 ECO Dichroic with anti-glare*</b> |                              |      |      |            |      |             |                    |                    |              |
| <b>0021265</b>                                      | Hi-SPOT ESD111 ECO 80W FL24° | 80W  | 230V | 24°        | GZ10 | 2900K       | 5000 cd            | 2000 hrs           | 15           |
| <b>0021267</b>                                      | Hi-SPOT ESD111 ECO 80W FL24° | 80W  | 240V | 24°        | GZ10 | 2900K       | 5000 cd            | 2000 hrs           | 15           |

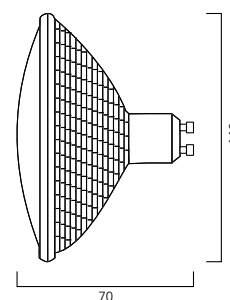
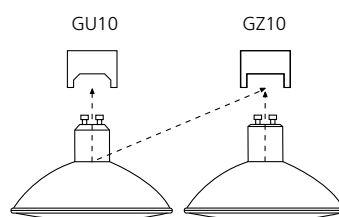
\* To be available from September 2010



## HI-SPOT® ES111/ESD111 AG



- 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



| 10°    |    | 100W    |
|--------|----|---------|
| 175mmØ | 1m | 12000lx |
| 350mmØ | 2m | 3000lx  |
| 525mmØ | 3m | 1333lx  |
| 700mmØ | 4m | 750lx   |

| 24°     |    | 75W    | 100W   |
|---------|----|--------|--------|
| 425mmØ  | 1m | 3500lx | 5000lx |
| 850mmØ  | 2m | 875lx  | 125lx  |
| 1275mmØ | 3m | 389lx  | 556lx  |
| 1700mmØ | 4m | 219lx  | 313lx  |

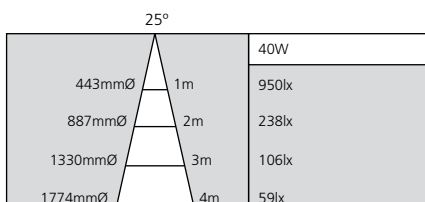
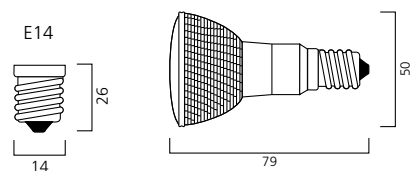
### HI-SPOT® ES111/ESD111 AG

| Code                                           | Description              | Watt | Volt | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|------------------------------------------------|--------------------------|------|------|------------|------|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT ES111 without anti-glare</b>        |                          |      |      |            |      |             |                    |                    |              |
| 0022221                                        | Hi-SPOT ES111 75W FL24°  | 75W  | 230V | 24°        | GU10 | 2800K       | 3000 cd            | 2000 hrs           | 15           |
| 0022223                                        | Hi-SPOT ES111 75W FL24°  | 75W  | 240V | 24°        | GU10 | 2800K       | 3000 cd            | 2000 hrs           | 15           |
| <b>Hi-SPOT ES111 with anti-glare</b>           |                          |      |      |            |      |             |                    |                    |              |
| 0022224                                        | Hi-SPOT ES111 75W FL24°  | 75W  | 230V | 24°        | GU10 | 2800K       | 3500 cd            | 2000 hrs           | 15           |
| 0022225                                        | Hi-SPOT ES111 75W FL24°  | 75W  | 240V | 24°        | GU10 | 2800K       | 3500 cd            | 2000 hrs           | 15           |
| <b>Hi-SPOT ESD111 Dichroic with anti-glare</b> |                          |      |      |            |      |             |                    |                    |              |
| 0022229                                        | Hi-SPOT ES111 100W SP10° | 100W | 230V | 10°        | GZ10 | 2900K       | 12000 cd           | 2000 hrs           | 15           |
| 0022227                                        | Hi-SPOT ES111 100W FL24° | 100W | 230V | 24°        | GZ10 | 2900K       | 5000 cd            | 2000 hrs           | 15           |
| 0022228                                        | Hi-SPOT ES111 100W SP10° | 100W | 240V | 10°        | GZ10 | 2900K       | 12000 cd           | 2000 hrs           | 15           |
| 0022226                                        | Hi-SPOT ES111 100W FL24° | 100W | 240V | 24°        | GZ10 | 2900K       | 5000 cd            | 2000 hrs           | 15           |

## HI-SPOT® 50



- Retrofit solution for E14 incandescent R50 lamps
- Twice the life compared to incandescent 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



### HI-SPOT® 50

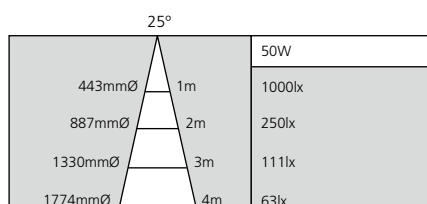
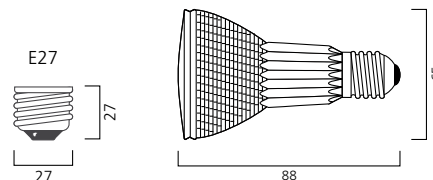
| Code              | Description          | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------|----------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 50</b> |                      |      |      |            |     |             |                    |                    |              |
| <b>0021081</b>    | Hi-SPOT 50 40W FL25° | 40W  | 230V | 25°        | E14 | 2700K       | 950 cd             | 2000 hrs           | 15           |
| <b>0021084</b>    | Hi-SPOT 50 40W FL25° | 40W  | 240V | 25°        | E14 | 2700K       | 950 cd             | 2000 hrs           | 15           |



## HI-SPOT® 63 ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® 63 with same luminous intensity
- Uniform, symmetrical beam
- Minimized stray light losses - more light on application area
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- Less heat generation
- 100% dimmable
- Transformer free operation



| Wattage Comparison |       |
|--------------------|-------|
| 40W                | = 50W |

## HI-SPOT® 63 ECO

| Code                   | Description              | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|------------------------|--------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 63 ECO*</b> |                          |      |      |            |     |             |                    |                    |              |
| <b>0021137</b>         | Hi-SPOT 63 ECO 40W FL25° | 40W  | 230V | 25°        | E27 | 2800K       | 1000 cd            | 2500 hrs           | 15           |
| <b>0021138</b>         | Hi-SPOT 63 ECO 40W FL25° | 40W  | 240V | 25°        | E27 | 2800K       | 1000 cd            | 2500 hrs           | 15           |

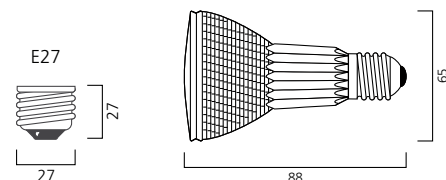
\* To be available from September 2010



## HI-SPOT® 63



- 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



| 10°    |    |  | 50W    |
|--------|----|--|--------|
| 175mmØ | 1m |  | 3000lx |
| 350mmØ | 2m |  | 750lx  |
| 525mmØ | 3m |  | 333lx  |
| 700mmØ | 4m |  | 188lx  |

| 25°     |    |  | 50W    |
|---------|----|--|--------|
| 443mmØ  | 1m |  | 1000lx |
| 887mmØ  | 2m |  | 250lx  |
| 1330mmØ | 3m |  | 111lx  |
| 1774mmØ | 4m |  | 63lx   |

## HI-SPOT® 63

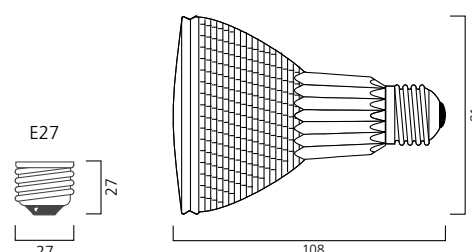
| Code              | Description          | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------|----------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 63</b> |                      |      |      |            |     |             |                    |                    |              |
| <b>0021125</b>    | Hi-SPOT 63 50W SP10° | 50W  | 230V | 10°        | E27 | 2900K       | 3000 cd            | 2500 hrs           | 15           |
| <b>0021126</b>    | Hi-SPOT 63 50W FL25° | 50W  | 230V | 25°        | E27 | 2900K       | 1000 cd            | 2500 hrs           | 15           |
| <b>0021127</b>    | Hi-SPOT 63 50W SP10° | 50W  | 240V | 10°        | E27 | 2900K       | 3000 cd            | 2500 hrs           | 15           |
| <b>0021128</b>    | Hi-SPOT 63 50W FL25° | 50W  | 240V | 25°        | E27 | 2900K       | 1000 cd            | 2500 hrs           | 15           |



## HI-SPOT® 80 ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® 80 with same luminous intensity
- Uniform, symmetrical beam
- Minimized stray light losses - more light on application area
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- Less heat generation
- 100% dimmable
- Transformer free operation



|         |    |
|---------|----|
| 25°     |    |
| 443mmØ  | 1m |
| 887mmØ  | 2m |
| 1330mmØ | 3m |
| 1774mmØ | 4m |

| Wattage Comparison |       |
|--------------------|-------|
| 40W                | = 50W |
| 60W                | = 75W |

## HI-SPOT® 80 ECO

| Code                   | Description              | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|------------------------|--------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 80 ECO*</b> |                          |      |      |            |     |             |                    |                    |              |
| <b>0021148</b>         | Hi-SPOT 80 ECO 40W FL25° | 40W  | 230V | 25°        | E27 | 2800K       | 1100 cd            | 2500 hrs           | 15           |
| <b>0021150</b>         | Hi-SPOT 80 ECO 40W FL25° | 40W  | 240V | 25°        | E27 | 2800K       | 1100 cd            | 2500 hrs           | 15           |
| <b>0021149</b>         | Hi-SPOT 80 ECO 60W FL25° | 60W  | 230V | 25°        | E27 | 2900K       | 2000 cd            | 2500 hrs           | 15           |
| <b>0021151</b>         | Hi-SPOT 80 ECO 60W FL25° | 60W  | 240V | 25°        | E27 | 2900K       | 2000 cd            | 2500 hrs           | 15           |

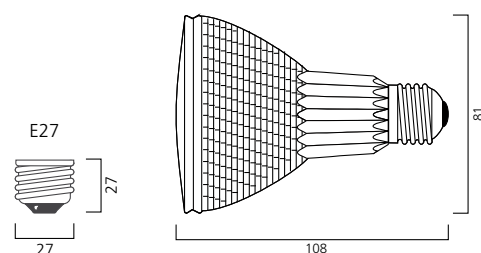
\* To be available from September 2010



## HI-SPOT® 80



- 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



| 10°    |    | 50W    | 75W    |
|--------|----|--------|--------|
| 175mmØ | 1m | 4000lx | 5500lx |
| 350mmØ | 2m | 1000lx | 1375lx |
| 525mmØ | 3m | 444lx  | 611lx  |
| 700mmØ | 4m | 250lx  | 344lx  |

| 25°     |    | 50W    | 75W    |
|---------|----|--------|--------|
| 443mmØ  | 1m | 1100lx | 1300lx |
| 887mmØ  | 2m | 275lx  | 325lx  |
| 1330mmØ | 3m | 122lx  | 144lx  |
| 1774mmØ | 4m | 69lx   | 81lx   |

## HI-SPOT® 80

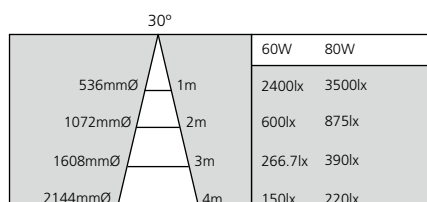
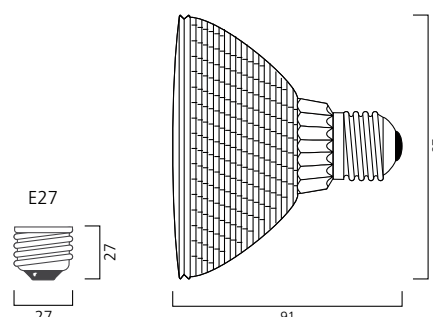
| Code              | Description          | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------|----------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| 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



## HI-SPOT® 95 ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® 95 with same luminous intensity
- Uniform, symmetrical beam
- Less CO<sub>2</sub> emissions
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- For accent or decorative lighting in retail, commercial and domestic applications
- Less heat generation
- 100% dimmable
- Transformer free operation



| Wattage Comparison |   |      |
|--------------------|---|------|
| 60W                | = | 75W  |
| 80W                | = | 100W |

## HI-SPOT® 95 ECO

| Code                            | Description                | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|---------------------------------|----------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 95 ECO*</b>          |                            |      |      |            |     |             |                    |                    |              |
| 0021177                         | Hi-SPOT 95 ECO 60W FL30°   | 60W  | 230V | 30°        | E27 | 2900K       | 2200 cd            | 2500 hrs           | 15           |
| 0021179                         | Hi-SPOT 95 ECO 60W FL30°   | 60W  | 240V | 30°        | E27 | 2900K       | 2200 cd            | 2500 hrs           | 15           |
| 0021178                         | Hi-SPOT 95 ECO 80W FL30°   | 80W  | 230V | 30°        | E27 | 2900K       | 3500 cd            | 2500 hrs           | 15           |
| 0021180                         | Hi-SPOT 95 ECO 80W FL30°   | 80W  | 240V | 30°        | E27 | 2900K       | 3500 cd            | 2500 hrs           | 15           |
| <b>Hi-SPOT 95 ECO Dichroic*</b> |                            |      |      |            |     |             |                    |                    |              |
| 0021227                         | Hi-SPOT 95 ECO 60W FL30° D | 60W  | 230V | 30°        | E27 | 2900K       | 2400 cd            | 2500 hrs           | 15           |
| 0021228                         | Hi-SPOT 95 ECO 60W FL30° D | 60W  | 240V | 30°        | E27 | 2900K       | 2400 cd            | 2500 hrs           | 15           |

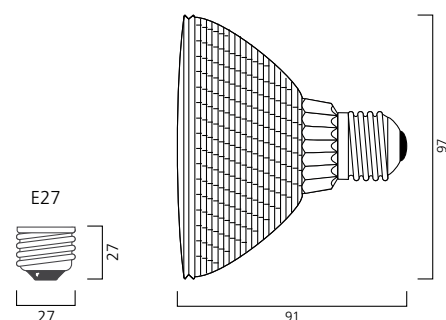
\* To be available from September 2010



## HI-SPOT® 95



- 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



| 10°    |    | 75W    | 100W    |
|--------|----|--------|---------|
| 175mmØ | 1m | 6900lx | 10000lx |
| 350mmØ | 2m | 1725lx | 2500lx  |
| 525mmØ | 3m | 767lx  | 1111lx  |
| 700mmØ | 4m | 431lx  | 625lx   |

| 30°     |    | 75W    | 75W DIC | 100W   |
|---------|----|--------|---------|--------|
| 536mmØ  | 1m | 2200lx | 2400lx  | 3500lx |
| 1072mmØ | 2m | 550lx  | 600lx   | 875lx  |
| 1608mmØ | 3m | 244lx  | 267lx   | 389lx  |
| 2144mmØ | 4m | 138lx  | 150lx   | 219lx  |

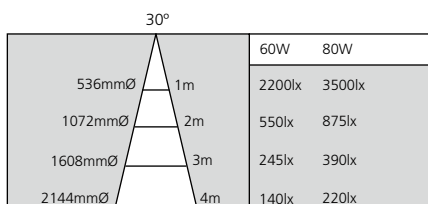
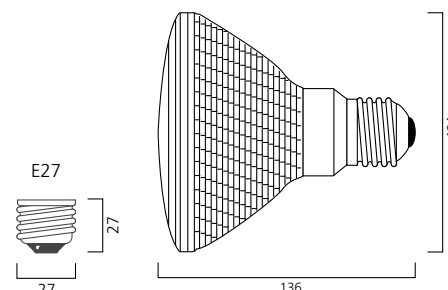
## HI-SPOT® 95

| Code                       | Description            | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|----------------------------|------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 95</b>          |                        |      |      |            |     |             |                    |                    |              |
| 0021230                    | Hi-SPOT 95 75W SP10°   | 75W  | 230V | 10°        | E27 | 2900K       | 6900 cd            | 3000 hrs           | 15           |
| 0021231                    | Hi-SPOT 95 75W FL30°   | 75W  | 230V | 30°        | E27 | 2900K       | 2200 cd            | 3000 hrs           | 15           |
| 0021234                    | Hi-SPOT 95 100W SP10°  | 100W | 230V | 10°        | E27 | 2900K       | 10000 cd           | 3000 hrs           | 15           |
| 0021235                    | Hi-SPOT 95 100W FL30°  | 100W | 230V | 30°        | E27 | 2900K       | 3500 cd            | 3000 hrs           | 15           |
| 0021232                    | Hi-SPOT 95 75W SP10°   | 75W  | 240V | 10°        | E27 | 2900K       | 6900 cd            | 3000 hrs           | 15           |
| 0021233                    | Hi-SPOT 95 75W FL30°   | 75W  | 240V | 30°        | E27 | 2900K       | 2200 cd            | 3000 hrs           | 15           |
| 0021236                    | Hi-SPOT 95 100W SP10°  | 100W | 240V | 10°        | E27 | 2900K       | 10000 cd           | 3000 hrs           | 15           |
| 0021237                    | Hi-SPOT 95 100W FL30°  | 100W | 240V | 30°        | E27 | 2900K       | 3500 cd            | 3000 hrs           | 15           |
| <b>Hi-SPOT 95 Dichroic</b> |                        |      |      |            |     |             |                    |                    |              |
| 0021291                    | Hi-SPOT 95 75W FL30° D | 75W  | 230V | 30°        | E27 | 2900K       | 2400 cd            | 3000 hrs           | 15           |
| 0021293                    | Hi-SPOT 95 75W FL30° D | 75W  | 240V | 30°        | E27 | 2900K       | 2400 cd            | 3000 hrs           | 15           |

## HI-SPOT® 120 ECO



- Xenon technology
- 20% energy savings compared to Hi-SPOT® 120 with same luminous intensity
- Uniform, symmetrical beam
- Less CO<sub>2</sub> emissions
- Less heat generation
- Unique 4 segmented W-shape filament for optimal focussing of light beam, resulting in less stray light
- For accent or decorative lighting in retail, commercial and domestic applications
- Less heat generation
- 100% dimmable
- Transformer free operation



| Wattage Comparison |   |      |
|--------------------|---|------|
| 60W                | = | 75W  |
| 80W                | = | 100W |

## HI-SPOT® 120 ECO

| Code                    | Description               | Watt | Volt | Beam Angle | Cap | Colour Temp | Luminous Intensity | Average Rated Life | Packing Qty. |
|-------------------------|---------------------------|------|------|------------|-----|-------------|--------------------|--------------------|--------------|
| <b>Hi-SPOT 120 ECO*</b> |                           |      |      |            |     |             |                    |                    |              |
| <b>0021181</b>          | Hi-SPOT 120 ECO 60W FL30° | 60W  | 230V | 30°        | E27 | 2900K       | 2200 cd            | 2500 hrs           | 15           |
| <b>0021190</b>          | Hi-SPOT 120 ECO 60W FL30° | 60W  | 240V | 30°        | E27 | 2900K       | 2200 cd            | 2500 hrs           | 15           |
| <b>0021182</b>          | Hi-SPOT 120 ECO 80W FL30° | 80W  | 230V | 30°        | E27 | 2900K       | 3500 cd            | 2500 hrs           | 15           |
| <b>0021191</b>          | Hi-SPOT 120 ECO 80W FL30° | 80W  | 240V | 30°        | E27 | 2900K       | 3500 cd            | 2500 hrs           | 15           |

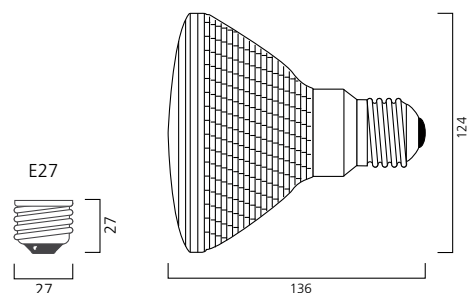
\* To be available from September 2010



## HI-SPOT® 120



- 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



| 10°    |    | 75W    | 100W    |
|--------|----|--------|---------|
| 175mmØ | 1m | 6900lx | 10000lx |
| 350mmØ | 2m | 1725lx | 2500lx  |
| 525mmØ | 3m | 767lx  | 1111lx  |
| 700mmØ | 4m | 431lx  | 625lx   |

| 30°     |    | 75W    | 100W   |
|---------|----|--------|--------|
| 536mmØ  | 1m | 2200lx | 3500lx |
| 1072mmØ | 2m | 550lx  | 875lx  |
| 1608mmØ | 3m | 244lx  | 389lx  |
| 2144mmØ | 4m | 138lx  | 219lx  |

## HI-SPOT® 120

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



## LINEAR DOUBLE ENDED 78MM/118MM ECO



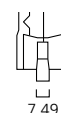
- Xenon technology
- 20% energy savings compared to standard halogen double ended lamps with same light output
- Sparkling light output
- Less CO<sub>2</sub> emissions
- Less heat generation.
- Transformer free operation
- Filament support method patented

### R7s Double Ended 78

L 78  
D 10

### R7s Double Ended 118

L 118  
D 8



7.49



### Wattage Comparison

|      |   |      |
|------|---|------|
| 48W  | = | 60W  |
| 80W  | = | 100W |
| 120W | = | 150W |
| 160W | = | 200W |
| 230W | = | 300W |
| 400W | = | 500W |

## LINEAR DOUBLE ENDED ECO

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

## LINEAR DOUBLE ENDED 189MM/254MM/331MM



- Instant illumination
- Excellent colour rendering
- Suitable for outdoor floodlighting/security lighting
- Suitable for interior floodlighting, uplighting and wallwashing
- For use in luminaires with toughened front glass

### **R7s** Double Ended 189

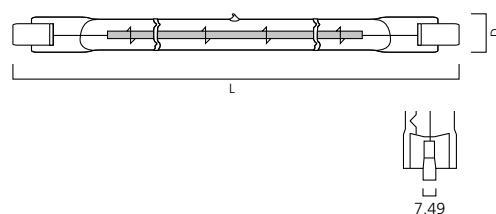
L 189  
D 12

### **R7s** Double Ended 254

L 254  
D 12

### **R7s** Double Ended 331

L 331  
D 12



UV STOP



## LINEAR DOUBLE ENDED

| Code                    | Description         | Watt  | Volt | Cap | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|-------------------------|---------------------|-------|------|-----|-------------|---------------|--------------------|--------------|
| <b>Double Ended 189</b> |                     |       |      |     |             |               |                    |              |
| 0021622                 | DE 189MM 230V 750W  | 750W  | 230V | R7s | 3000K       | 15000 lm      | 2000 hrs           | 10           |
| 0021623                 | DE 189MM 240V 750W  | 750W  | 240V | R7s | 3000K       | 15000 lm      | 2000 hrs           | 10           |
| 0021624                 | DE 189MM 230V 1000W | 1000W | 230V | R7s | 3000K       | 22000 lm      | 2000 hrs           | 10           |
| 0021625                 | DE 189MM 240V 1000W | 1000W | 240V | R7s | 3000K       | 22000 lm      | 2000 hrs           | 10           |
| <b>Double Ended 254</b> |                     |       |      |     |             |               |                    |              |
| 0021626                 | DE 254MM 230V 1500W | 1500W | 230V | R7s | 3000K       | 33000 lm      | 2000 hrs           | 10           |
| 0021628                 | DE 254MM 240V 1500W | 1500W | 240V | R7s | 3000K       | 33000 lm      | 2000 hrs           | 10           |
| <b>Double Ended 331</b> |                     |       |      |     |             |               |                    |              |
| 0021629                 | DE 331MM 230V 2000W | 2000W | 230V | R7s | 3000K       | 44000 lm      | 2000 hrs           | 50           |





# LED



## TOLEDO LAMPS

ToLEDo Candle / Candle Bent Tip 72 ToLEDo GLS A60 74  
ToLEDo Ball G45 73

72-74



## LED GU10

GU10 LED Coloured ES50

75

75



## HI-SPOT® REFLED

HI-SPOT® RefLED ES50 76  
HI-SPOT® RefLED PAR16 77

HI-SPOT® RefLED PAR20 78  
HI-SPOT® RefLED PAR30 79

76-79



## MICRO-LYNX LAMPS

Micro-Lynx LED

80

80



## A55

A55 Variable Color (HV)

81

81



LEDs are becoming more and more efficient and versatile for accent lighting applications. They are available in various shapes, intensities, beam angles and colours. LEDs are the perfect solution where long lasting light source with low service maintenance are a factor.

The small dimensions of these light sources and the easy connectivity make them popular in applications of creative, easy to install lighting effects.

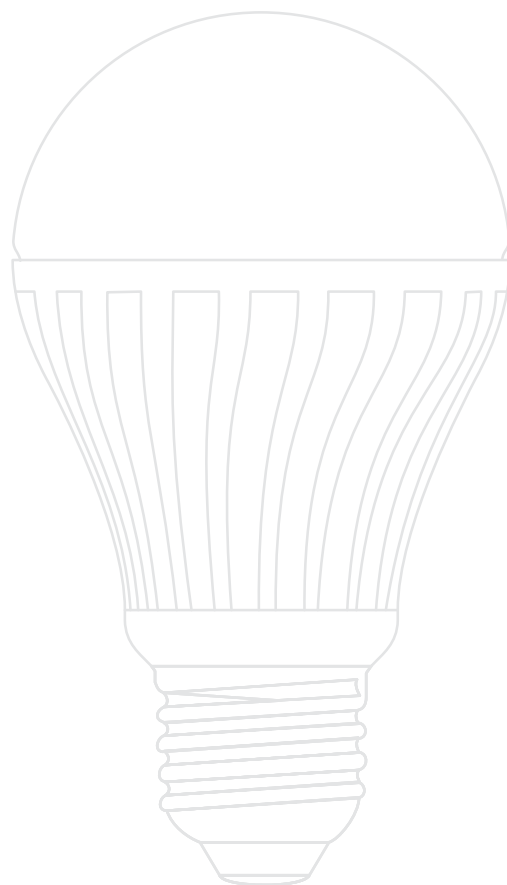
The evolution of this light source is still ongoing, even our well known and established Micro-Lynx F compact fluorescent lamp has been adapted and evolved to become the Micro-Lynx LED.

Sylvania offers a wide range of retrofit LED lamps that live up to the promise of attractive, safe and above all, efficient lighting solutions.

Sylvania LED lamps give you a lot of light for your energy. Up to 52 lumen per watt, to be precise.

Which makes them around 4 times more efficient than their incandescent or halogen counterparts.

Unlike regular energy saving lamps, Sylvania LEDs produce instant warm, soothing light the moment you switch them on. Their unique construction ensures perfect insulation of the metal casing, making them extremely safe to use, even in humid conditions. Sylvania's retrofit LED lamps come in a variety of decorative shapes and caps, offering 100% compatibility and one-to-one replacement with existing installations





#### TOLEDO LAMPS

Sylvania's innovative answer to the prehistoric light bulb. Get years of warm, soothing light at the flick of a switch

A satin glass bulb ensures soft, warm light diffused at a very wide angle. Matches the ambiance of incandescent light with an energy saving of 85 %. The real alternative for decorative applications, especially chandeliers and antique-style lighting



#### HI-SPOT® REFLED

Introducing the world's first true dimensional retrofit LED spot with GU10 base, offering the same output as a 50W mains voltage halogen lamp for just 3.5 W of power, or an energy saving of 90 %. Chosen by professional customers as best in class!

Sylvania's revolutionary LED spot replaces 40 W incandescent R50 spots with a E14 screw fitting. The HI-SPOT® RefLED gives you more light for a lot less energy.

Get hours and hours and hours of warm, bright, white light. Replaces regular 50W incandescent R63 spots or PAR20 halogen spots, using only a fraction of the energy.

When you need the strongest, brightest light, Radiating 2000 candela of warm white light, the HI-SPOT® RefLED PAR30 offers the equivalent output of 75 W lamps for just 10 W of electricity.



#### MICRO-LYNX LAMPS

As the name states, incorporates 21 state of the art LED's (Light Emitting Diodes). The ultra low profile Micro-Lynx LED operates directly on the mains supply so no separate transformer is required. 1,5w available in two different finishes (clear or satin) both in white or 4 different vibrant colours (blue, green, red or yellow) the new 5w version will be available for real high power lighting applications.

With Micro-Lynx LED, the creation of staggering or subtle ambience lighting effects will become child's play.

No difficult choices of which transformer or interconnection cables to use - with the Micro-Lynx LED it's just plug and play!

## ToLEDo CANDLE/CANDLE BENT-TIP

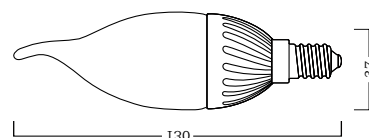
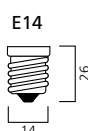
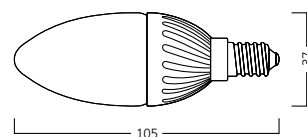


### ToLEDo Candle

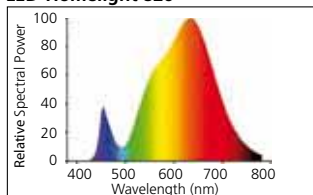
- 15 years or 15,000 hours
- Instant light
- Colour rendering index 85
- 100 % retrofit

### ToLEDo Candle Bent Tip

- 15 years or 15,000 hours
- Instant light
- Colour rendering index 85
- 2.5 W = 15 W incandescent
- 130 lm (-85 % energy\*)
- HomeLight 2600 K
- Satin bulb gives uniform light distribution
- Exact dimensional incandescent copy



### LED-Homelight 826



## ToLEDo CANDLE

| Code                          | Description                     | Watt | Volt     | Cap | Lamp Finish | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|-------------------------------|---------------------------------|------|----------|-----|-------------|-------------|---------------|--------------------|--------------|
| <b>ToLEDo Candle</b>          |                                 |      |          |     |             |             |               |                    |              |
| <b>0026156</b>                | Candle Satin Homelight          | 2,5W | 220-240V | E14 | Satin       | 2600K       | 130 lm        | 15000 hrs          | 10           |
| <b>ToLEDo Candle Bent Tip</b> |                                 |      |          |     |             |             |               |                    |              |
| <b>0026160</b>                | Bent Tip Candle Satin Homelight | 2,5W | 220-240V | E14 | Satin       | 2600K       | 130 lm        | 15000 hrs          | 10           |

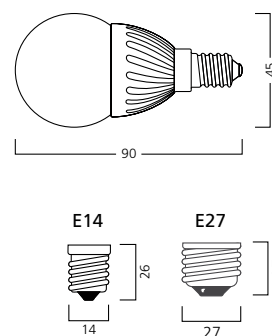
\* compared with incandescent



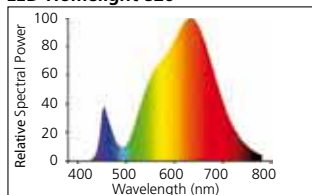
## TOLEDO BALL



- 15 years or 15,000 hours
- Instant light
- Colour rendering index 85
- 2.5 W = 15 W incandescent
- 130 lm (-85 % energy\*)
- HomeLight 2600 K
- Satin bulb gives uniform light distribution
- Exact dimensional incandescent copy



LED-Homelight 826



## ToLEDo BALL

| Code               | Description          | Watt | Volt     | Cap | Lamp Finish | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|--------------------|----------------------|------|----------|-----|-------------|-------------|---------------|--------------------|--------------|
| <b>ToLEDo Ball</b> |                      |      |          |     |             |             |               |                    |              |
| <b>0026164</b>     | Ball Satin Homelight | 2,5W | 220-240V | E14 | Satin       | 2600K       | 130 lm        | 15000 hrs          | 10           |
| <b>0026178</b>     | Ball Satin Homelight | 2,5W | 220-240V | E27 | Satin       | 2600K       | 130 lm        | 15000 hrs          | 10           |

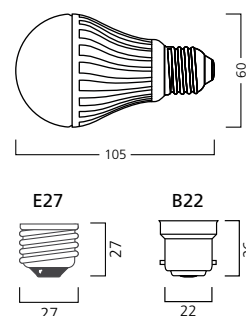
\* compared with incandescent



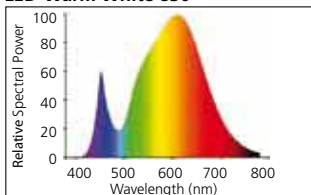
## TOLEDO GLS



- 15 years or 15,000 hours
- Instant light
- Colour rendering index 85
- 100 % retrofit
- 6 W = 25 W incandescent
- E27 and B22 socket
- 250 lm (-80 % energy\*)
- Warm White 3000 K
- 100-250 V
- Energy Class A



LED-Warm White 830



## ToLEDo GLS

| Code                  | Description          | Watt | Volt     | Cap | Lamp Finish | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|-----------------------|----------------------|------|----------|-----|-------------|-------------|---------------|--------------------|--------------|
| <b>ToLEDo GLS A60</b> |                      |      |          |     |             |             |               |                    |              |
| <b>0026152</b>        | GLS Pearl Warm White | 6W   | 100-250V | E27 | Pearl       | 3000K       | 250 lm        | 15000 hrs          | 10           |
| <b>0026190</b>        | GLS Pearl Warm White | 6W   | 100-250V | B22 | Pearl       | 3000K       | 250 lm        | 15000 hrs          | 10           |

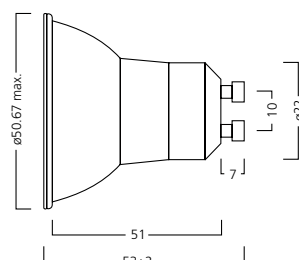
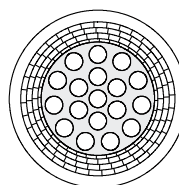
\* compared with incandescent



## GU10 LED ES50



- Halogen retrofit, will fit into every GU10 / GZ10 socket.
- Coloured LED light appears much richer than the light from coloured halogen, fluorescent or HID lamps.
- Ideal for creating ambience atmosphere, in both domestic and semi-professional
- Applications e.g. Hotel rooms, Restaurants, Bars, Furniture lighting etc.
- Life time of 25,000 hours, low maintenance cost.
- 1.5 Watt rating, cost very little to operate.
- No delay or run up time after switch-on.



## GU10 LED ES50

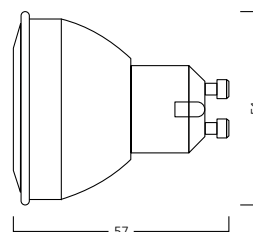
| Code                      | Description     | Watt | Volt     | LED Colour | Luminous Flux | Average Rated Life | Packing Qty. |
|---------------------------|-----------------|------|----------|------------|---------------|--------------------|--------------|
| <b>GU10 LED ES50 1,5W</b> |                 |      |          |            |               |                    |              |
| <b>0025121</b>            | LED GU10 White  | 1.5W | 200-250V | White      | 18 lm         | 10000 hrs          | 20           |
| <b>0025122</b>            | LED GU10 Blue   | 1.5W | 200-250V | Blue       | 11 lm         | 25000 hrs          | 20           |
| <b>0025125</b>            | LED GU10 Yellow | 1.5W | 200-250V | Yellow     | 11 lm         | 25000 hrs          | 20           |
| <b>0025123</b>            | LED GU10 Red    | 1.5W | 200-250V | Red        | 10 lm         | 25000 hrs          | 20           |
| <b>0025124</b>            | LED GU10 Green  | 1.5W | 200-250V | Green      | 22 lm         | 25000 hrs          | 20           |



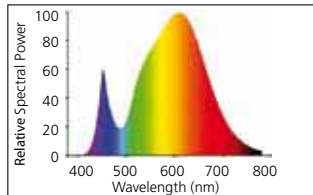
## HI-SPOT® REFLED ES50



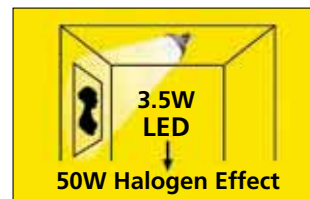
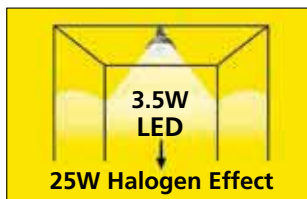
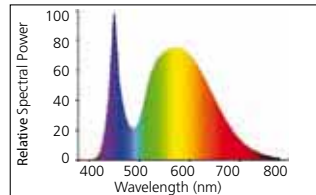
- Available in Warm 3000 K and Cool White 4000 K
- Colour rendering index 85
- 15 years or 15,000 hours
- Instant light
- Universal Retrofit 100-250 V
- 3.5 W = 35 W halogen
- World's first true dimensional retrofit for 50W halogen in spot lighting applications
- Integrated electrical isolating transformer for highest safety, even in humid conditions



LED-Warm White 830



LED-Cool White 840



## HI-SPOT® REFLED ES50

| Code                        | Description          | Watt | Volt     | Beam Angle | Cap  | Colour Temp | Luminous Intensity | Luminous Flux | Average Rated Life | Packing Qty. |
|-----------------------------|----------------------|------|----------|------------|------|-------------|--------------------|---------------|--------------------|--------------|
| <b>HI-SPOT® RefLED ES50</b> |                      |      |          |            |      |             |                    |               |                    |              |
| <b>0025169</b>              | HI-SPOT® RefLED ES50 | 3.5W | 100-250V | 20°        | GU10 | 3000K       | 1200 cd            | 175 lm        | 15000 hrs          | 10           |
| <b>0025173</b>              | HI-SPOT® RefLED ES50 | 3.5W | 100-250V | 20°        | GU10 | 4000K       | 1400 cd            | 210 lm        | 15000 hrs          | 10           |

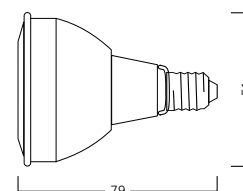
\* compared with Halogen



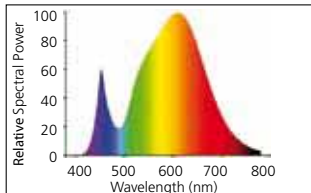
## HI-SPOT® REFLED PAR16



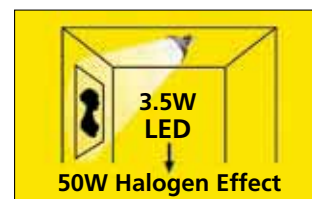
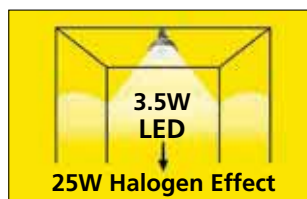
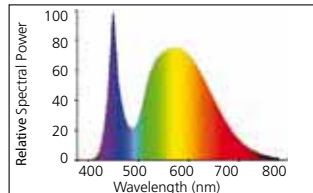
- Available in Warm 3000 K and Cool White 4000 K
- Colour rendering index 85
- 15 years or 15,000 hours
- Instant light
- Universal Retrofit 100-250 V
- 3.5 W = 40 W incandescent R50
- World's first true dimensional retrofit for 50W halogen in spot lighting applications
- Integrated electrical isolating transformer for highest safety, even in humid conditions



LED-Warm White 830



LED-Cool White 840



## HI-SPOT® REFLED PAR16

| Code                         | Description           | Watt | Volt     | Beam Angle | Cap | Colour Temp | Luminous Intensity | Luminous Flux | Average Rated Life | Packing Qty. |
|------------------------------|-----------------------|------|----------|------------|-----|-------------|--------------------|---------------|--------------------|--------------|
| <b>HI-SPOT® RefLED PAR16</b> |                       |      |          |            |     |             |                    |               |                    |              |
| <b>0025171</b>               | HI-SPOT® RefLED PAR16 | 3.5W | 100-250V | 20°        | E14 | 3000K       | 1200 cd            | 175 lm        | 15000 hrs          | 10           |
| <b>0025176</b>               | HI-SPOT® RefLED PAR16 | 3.5W | 100-250V | 20°        | E14 | 4000K       | 1400 cd            | 210 lm        | 15000 hrs          | 10           |

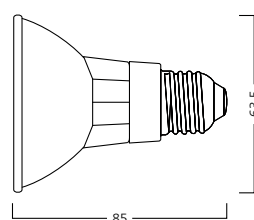
\* compared with Halogen



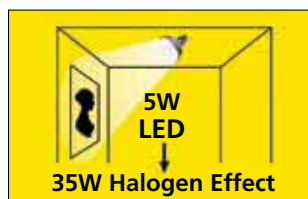
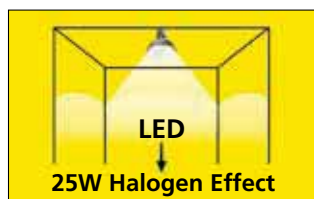
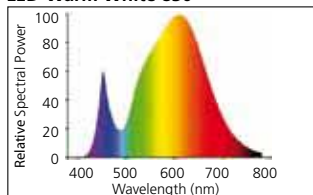
## HI-SPOT® REFLED PAR20



- Warm White 3000 K
- Colour rendering index 85
- 15 years or 15,000 hours
- Instant light
- Universal Retrofit 100-250 V
- 5W = 25W halogen downlight
- True dimensional retrofit for halogen PAR 20 & Incandescent PAR 63
- Integrated electrical isolating transformer for highest safety, even in humid conditions



### LED-Warm White 830



## HI-SPOT® REFLED PAR20

| Code                         | Description           | Watt | Volt     | Beam Angle | Cap | Colour Temp | Luminous Intensity | Luminous Flux | Average Rated Life | Packing Qty. |
|------------------------------|-----------------------|------|----------|------------|-----|-------------|--------------------|---------------|--------------------|--------------|
| <b>HI-SPOT® RefLED PAR20</b> |                       |      |          |            |     |             |                    |               |                    |              |
| <b>0026170</b>               | HI-SPOT® RefLED PAR20 | 5W   | 100-250V | 30°        | E27 | 3000K       | 450 cd             | 200 lm        | 15000 hrs          | 10           |

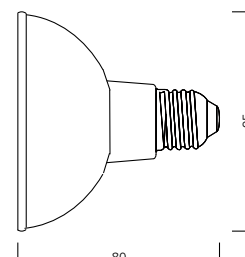
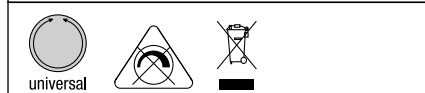
\* compared with Halogen



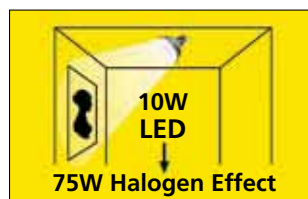
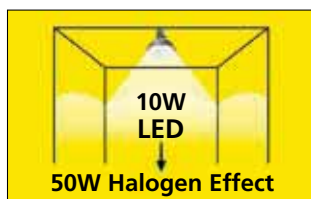
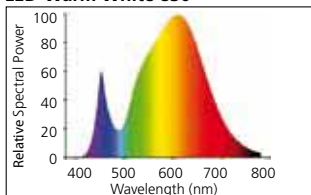
## HI-SPOT® REFLED PAR30



- Warm White 3000 K
- Colour rendering index 85
- 15 years or 15,000 hours
- Instant light
- Universal Retrofit 100-250 V
- 10 W = 50 W halogen downlight
- Integrated electrical isolating transformer for highest safety, even in humid conditions



LED-Warm White 830



## HI-SPOT® REFLED PAR30

| Code                         | Description           | Watt | Volt     | Beam Angle | Cap | Colour Temp | Luminous Intensity | Luminous Flux | Average Rated Life | Packing Qty. |
|------------------------------|-----------------------|------|----------|------------|-----|-------------|--------------------|---------------|--------------------|--------------|
| <b>HI-SPOT® RefLED PAR30</b> |                       |      |          |            |     |             |                    |               |                    |              |
| <b>0026172</b>               | HI-SPOT® RefLED PAR30 | 10W  | 100-250V | 25°        | E27 | 3000K       | 2000 cd            | 400 lm        | 15000 hrs          | 10           |

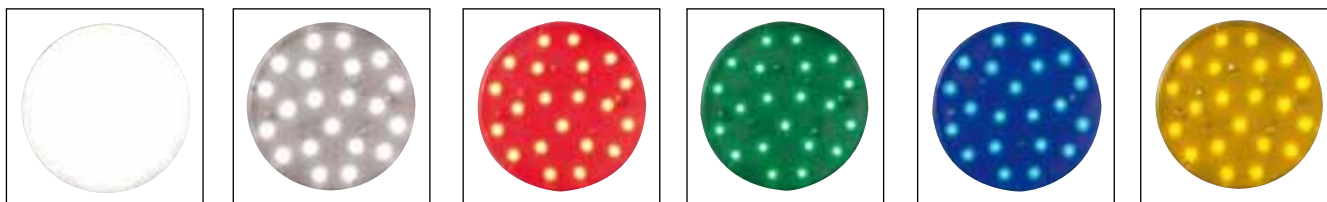
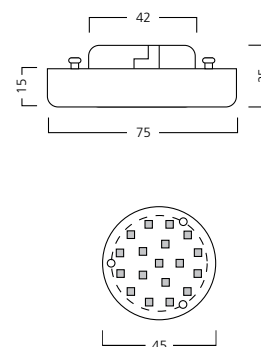
\* compared with Halogen



## MICRO-LYNX LED



- Two different finishes - satin and clear
- Power consumption 1,5W or 5W
- Temperature range of -25°C to 60°C
- Integrated electronic driver
- Mains voltage operation
- New 5W version with very high light output, matching CFL light output



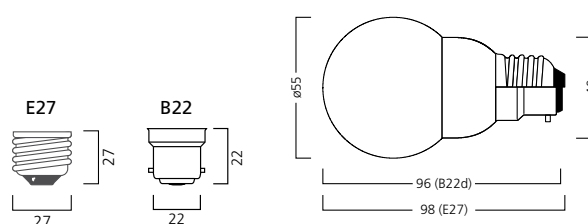
### MICRO-LYNX LED

| Code                             | Description                 | Watt | Volt     | Cap  | LED Colour | Lamp Finish | Colour Temp | Luminous Flux | Average Rated Life | Packing Qty. |
|----------------------------------|-----------------------------|------|----------|------|------------|-------------|-------------|---------------|--------------------|--------------|
| <b>Micro-Lynx LED 1,5W Satin</b> |                             |      |          |      |            |             |             |               |                    |              |
| 0025060                          | Micro-Lynx LED White Satin  | 1.5W | 230-240V | GX53 | White      | Satin       | 6500K       | 20 lm         | 50000 hrs          | 10           |
| 0025061                          | Micro-Lynx LED Red Satin    | 1.5W | 230-240V | GX53 | Red        | Satin       | -           | 12 lm         | 50000 hrs          | 10           |
| 0025062                          | Micro-Lynx LED Green Satin  | 1.5W | 230-240V | GX53 | Green      | Satin       | -           | 20 lm         | 50000 hrs          | 10           |
| 0025063                          | Micro-Lynx LED Blue Satin   | 1.5W | 230-240V | GX53 | Blue       | Satin       | -           | 5 lm          | 50000 hrs          | 10           |
| 0025064                          | Micro-Lynx LED Yellow Satin | 1.5W | 230-240V | GX53 | Yellow     | Satin       | -           | 15 lm         | 50000 hrs          | 10           |
| <b>Micro-Lynx LED 1,5W Clear</b> |                             |      |          |      |            |             |             |               |                    |              |
| 0025065                          | Micro-Lynx LED White Clear  | 1.5W | 230-240V | GX53 | White      | Clear       | 6500K       | 40 lm         | 50000 hrs          | 10           |
| 0025066                          | Micro-Lynx LED Red Clear    | 1.5W | 230-240V | GX53 | Red        | Clear       | -           | 20 lm         | 50000 hrs          | 10           |
| 0025067                          | Micro-Lynx LED Green Clear  | 1.5W | 230-240V | GX53 | Green      | Clear       | -           | 32 lm         | 50000 hrs          | 10           |
| 0025068                          | Micro-Lynx LED Blue Clear   | 1.5W | 230-240V | GX53 | Blue       | Clear       | -           | 8 lm          | 50000 hrs          | 10           |
| 0025069                          | Micro-Lynx LED Yellow Clear | 1.5W | 230-240V | GX53 | Yellow     | Clear       | -           | 24 lm         | 50000 hrs          | 10           |
| <b>Micro-Lynx LED 5W Clear</b>   |                             |      |          |      |            |             |             |               |                    |              |
| 0025031                          | Micro-Lynx LED White Clear  | 5W   | 230-240V | GX53 | Warm White | Clear       | 3000K       | 180 lm        | 25000 hrs          | 10           |
| 0025033                          | Micro-Lynx LED White Clear  | 5W   | 230-240V | GX53 | Cool White | Clear       | 8000K       | 200 lm        | 25000 hrs          | 10           |

## VARIABLE COLOR



- GLS retrofit will fit into every E27 & B22 Socket
- Colour changing ideal for creating ambience atmosphere, in Professional and
- Domestic applications e.g. Bars, Christmas Trees, (Indoor) Parties Nurseries
- Nightlights etc.
- Will last an average lifetime of 25000 hours
- Works directly on mains voltage, no need for a separate transformer or electronic driver, all electronics incorporated.



### A55 VARIABLE COLOR (HV)

| Code           | Description       | Cap | Watt | Volt     | LED Colour        | Packing Qty. |
|----------------|-------------------|-----|------|----------|-------------------|--------------|
| <b>0025127</b> | 7 COLOUR LED BALL | E27 | 0.7W | 220-250V | Variable 7-Colour | 10           |
| <b>0025135</b> | 7 COLOUR LED BALL | B22 | 0.7W | 220-250V | Variable 7-Colour | 10           |





## Manufacturer's lamp cross reference

| Sylvania                             | Osram                       | Philips                 | GE                            | Megaman                          |
|--------------------------------------|-----------------------------|-------------------------|-------------------------------|----------------------------------|
| Mini-Lynx® Standard                  | Duluxstar Stick             | Esaver Genie            | Electronic Stick T3 Mini Eco  | Tubular                          |
| Mini-Lynx® Fast-Start 10K hrs        | Dulux Superstar Stick       | PL-Electronic           | Electronic Stick T3 mini      | Liliput                          |
| Mini-Lynx® Compact Fast-Start Stick  | -                           | -                       |                               | Liliput plus                     |
| Mini-Lynx® Compact Fast-Start Spiral | Dulux Superstar Micro Twist | Esaver Tornado          | Electronic Spiral T2          | Spiral                           |
| Mini-Lynx® Compact GLS               | Duluxstar Classic A         | PL-Electronic Ambience  | Electronic Energy Smart T2    | Classic                          |
| Mini-Lynx® Compact Candle            | Duluxstar Mini Candle       | Esaver Candle           | Electronic Candle T2          | Ultra Compact Candle/Candlelight |
| Mini-Lynx® Compact Ball              | Duluxstar Mini Ball         | Esaver T shape          | Electronic Spherical T2       | Ultra Compact Classic            |
| Mini-Lynx® Globe                     | Duluxstar Globe             | PL Electronic Globe     | Electronic Globe              | Globe                            |
| Mini-Lynx® Dimmable (dimmer)         | Dulux Intelligent Dim       | PL-Electronic Dimmable  | Electronic Spiral T3 Dimmable | Dimmerable                       |
| Mini-Lynx® Dimmable (switch)         | Dulux Intelligent Vario     | -                       |                               | DorS Dimming                     |
| Mini-Lynx® Reflector GU10            | Duluxstar Reflector         | Esaver Downlighter GU10 | Electronic GU10               | GU10 Reflector                   |
| Mini-Lynx® R50 - R80 Reflector       | Duluxstar Reflector         | Esaver Downlighter      | Electronic Reflector T2       | Compact Reflector                |
| Lynx-T                               | DULUX T                     | Master PL-T 2 Pins      | Biax T                        |                                  |
| Lynx-TE                              | DULUX T/E                   | Master PL-T 4 Pins      | Biax TE                       |                                  |
| Lynx-D                               | DULUX D                     | Master PL-C 2 Pins      | Biax D                        |                                  |
| Lynx-DE                              | DULUX D/E                   | Master PL-C 4 Pins      | Biax DE                       |                                  |
| Lynx-SE                              | DULUX S/E                   | Master PL-S 4 Pins      | Biax SE                       |                                  |
| Lynx-S                               | DULUX S                     | Master PL-S 2 Pins      | Biax S                        |                                  |
| Lynx-L                               | DULUX L                     | Master PL-L 4 Pins      | Biax L                        |                                  |
| Lynx-LE                              | DULUX L                     | Master PL-L 4 Pins      | Biax L                        |                                  |
| Lynx-F                               | DULUX F                     | -                       | -                             |                                  |
| Lynx-Q                               | -                           | -                       | -                             |                                  |
| Lynx-QE                              | -                           | -                       | -                             |                                  |



# COMPACT FLUORESCENT



## MICRO-LYNX® LAMPS

Micro-Lynx Luna 86      Micro-Lynx F Third Generation 87



## MINI-LYNX® LAMPS

|                                     |    |                             |    |
|-------------------------------------|----|-----------------------------|----|
| Mini-Lynx Standard                  | 88 | Mini-Lynx Ball              | 94 |
| Mini-Lynx Fast-Start 10K hrs        | 89 | Mini-Lynx Globe             | 95 |
| Mini-Lynx Compact Fast-Start Stick  | 90 | Mini-Lynx Dimmable          | 96 |
| Mini-Lynx Compact Fast-Start Spiral | 91 | Mini-Lynx Reflector GU10    | 97 |
| Mini-Lynx Compact GLS               | 92 | Mini-Lynx R50-R80 Reflector | 98 |
| Mini-Lynx Compact Candle            | 93 |                             |    |



## LYNX LAMP

|                   |     |           |     |
|-------------------|-----|-----------|-----|
| Lynx - T          | 99  | Lynx - L  | 106 |
| Lynx - TE Amalgam | 100 | Lynx - LE | 107 |
| Lynx - TE FSD     | 101 | Lynx - F  | 108 |
| Lynx - D          | 102 | Lynx - Q  | 109 |
| Lynx - DE         | 103 | Lynx - QE | 110 |
| Lynx - S          | 104 |           |     |
| Lynx - SE         | 105 |           |     |

## TECHNICAL DATA

Spectral Power Distribution 111      Circuit Diagrams 112



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, such as in Mini-Lynx Fast-start, create a range of retrofit lamps that will directly 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.

The Lynx range offers a comprehensive range of light source solutions for diverse applications – for example for use in downlights and luminaires for shops and offices, fast food chains, hotel and bar lighting schemes, signs or in low battery drain emergency lighting units.

Mini-Lynx and Lynx lamps share the common features of long life, high colour rendering and constant light output throughout their life.

Following the success of our well known Micro-Lynx F lamp, we are now proudly introducing a third generation which is Fast-Start with an increased average rated life of 8,000 hours. Also, an additional product Micro-Lynx Luna joins the family.





#### MINI-LYNX® LUNA

New to the Micro-Lynx family is the Luna range, which stands out from similar products on the market thanks to its strikingly stylish 'satin' cover design. Coupled with an even longer life, Micro-Lynx Luna is an ideal and attractive solution for a wide range of domestic and commercial applications.



#### MINI-LYNX® FAST-START

A comprehensive range of quick-starting compact T3 lamps. By producing light within seconds of switch on these lamps are the perfect long life alternative for incandescent lamps. Their small size enables the lamps to be used in a variety of fixtures, where a standard stick lamp would be visible.



#### MINI-LYNX® COMPACT GLS, BALL & CANDLE

The frosted finish of these energy saving lamps mimics frosted incandescent lamps, whilst providing a high level of light output. For use in decorative fixtures where the lamp can be seen, these lamps are ideal for customers who would like to save energy, whilst keeping the look of a traditional incandescent.



#### MINI-LYNX® DIMMABLE

Up until recently it was not possible for CFL's to be dimmed. However now the technology is available in the Mini-Lynx Dimmable to vary the brightness of the lamp, with or without a dimmer switch. Sylvania's Switch dimmable allows the user to dim the lamp from 100% to 3% with a standard switch. Unlike most competitor switch dimmers Sylvania's lamp is not staged, Switch on/off/on and the lamps fluctuates from high to low, allowing the user to select any brightness.



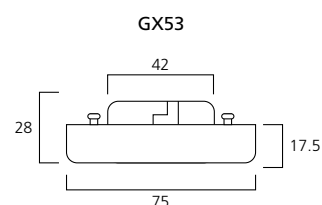
#### MINI-LYNX® Q

With their excellent price-performance ratio, Lynx® Q compact fluorescent lamps reduce energy and maintenance bills without compromising on light quality or lumen output. The flat profile is ideal for slim luminaires, while the shallow, broad configuration ensures unusually even light distribution.

## MICRO-LYNX® LUNA



- High switch cycle to at least 30,000 times over the life time
- New ballast with pre-heat function
- Ultra compact size - 75mm wide x 28 mm depth
- Colour rendering - Ra85/Class 1B
- Integrated twist and lock safety key
- Integral electronic ballast
- Also available in Red, Green and Blue
- Average rated life: 10,000 hours



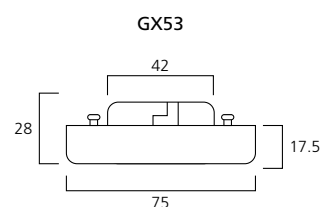
## MICRO-LYNX® LUNA

| Code                                           | Description     | Watt | Cap  | Colour | Colour Temp | Luminous Flux | Packing Qty |
|------------------------------------------------|-----------------|------|------|--------|-------------|---------------|-------------|
| <b>Micro-Lynx Luna Homelight Deluxe (827)</b>  |                 |      |      |        |             |               |             |
| <b>0025476</b>                                 | Micro-Lynx Luna | 6W   | GX53 | White  | 2700K       | 235 lm        | 20          |
| <b>Micro-Lynx Luna Warm White Deluxe (830)</b> |                 |      |      |        |             |               |             |
| <b>0025477</b>                                 | Micro-Lynx Luna | 6W   | GX53 | White  | 3000K       | 235 lm        | 20          |
| <b>Micro-Lynx Luna Cool White Deluxe (840)</b> |                 |      |      |        |             |               |             |
| <b>0025478</b>                                 | Micro-Lynx Luna | 6W   | GX53 | White  | 4000K       | 235 lm        | 20          |
| <b>Micro-Lynx Luna Daylight Deluxe (860)</b>   |                 |      |      |        |             |               |             |
| <b>0025479</b>                                 | Micro-Lynx Luna | 6W   | GX53 | White  | 6000K       | 235 lm        | 20          |
| <b>Micro-Lynx Luna Colours</b>                 |                 |      |      |        |             |               |             |
| <b>0025490</b>                                 | Micro-Lynx Luna | 6W   | GX53 | Red    |             | 170 lm        | 20          |
| <b>0025491</b>                                 | Micro-Lynx Luna | 6W   | GX53 | Green  |             | 310 lm        | 20          |
| <b>0025492</b>                                 | Micro-Lynx Luna | 6W   | GX53 | Blue   |             | 110 lm        | 20          |

## MICRO-LYNX® F THIRD GENERATION



- Fast start, lamps start immediately after switching on
- Ultra compact size – 75mm wide x 25mm depth
- Colour rendering – Ra85/Class 1B
- Integrated twist and lock safety key
- Integral electronic ballast
- Also available in Red, Green and Blue
- Average rated life: 8000 hours



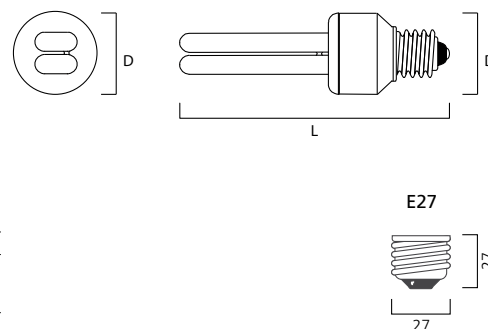
### MICRO-LYNX® F

| Code                                        | Description  | Watt | Cap  | Colour | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------------|--------------|------|------|--------|-------------|---------------|-------------|
| <b>Micro-Lynx F Homelight Deluxe (827)</b>  |              |      |      |        |             |               |             |
| <b>0025214</b>                              | Micro-Lynx F | 6W   | GX53 | White  | 2700K       | 220 lm        | 20          |
| <b>Micro-Lynx F Warm White Deluxe (830)</b> |              |      |      |        |             |               |             |
| <b>0025218</b>                              | Micro-Lynx F | 6W   | GX53 | White  | 3000K       | 220 lm        | 20          |
| <b>Micro-Lynx F Cool White Deluxe (840)</b> |              |      |      |        |             |               |             |
| <b>0025219</b>                              | Micro-Lynx F | 6W   | GX53 | White  | 4000K       | 220 lm        | 20          |
| <b>Micro-Lynx F Daylight Deluxe (860)</b>   |              |      |      |        |             |               |             |
| <b>0025208</b>                              | Micro-Lynx F | 6W   | GX53 | White  | 6000K       | 220 lm        | 20          |
| <b>Micro-Lynx F Colours</b>                 |              |      |      |        |             |               |             |
| <b>0025244</b>                              | Micro-Lynx F | 6W   | GX53 | Red    |             | 170 lm        | 20          |
| <b>0025245</b>                              | Micro-Lynx F | 6W   | GX53 | Green  |             | 310 lm        | 20          |
| <b>0025246</b>                              | Micro-Lynx F | 6W   | GX53 | Blue   |             | 110 lm        | 20          |

## MINI-LYNX® STANDARD



- Cost effective range of energy saving lamps
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E27 Cap in Homelight (827) & Cool White (840)
- Average rated life 8,000 hrs
- To be used in dry applications



| E27 | 9W  | 11W | 15W | 20W | 23W |
|-----|-----|-----|-----|-----|-----|
| L   | 138 | 138 | 169 | 168 | 177 |
| D   | 44  | 44  | 47  | 52  | 52  |

## MINI-LYNX® STANDARD

| Code                                         | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|----------------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Standard /Economy Homelight (827)</b>  |             |      |     |             |               |             |
| <b>0026260</b>                               | 9W/E27      | 9W   | E27 | 2700K       | 490 lm        | 20          |
| <b>0026261</b>                               | 11W/E27     | 11W  | E27 | 2700K       | 600 lm        | 20          |
| <b>0024912</b>                               | 15W/E27     | 15W  | E27 | 2700K       | 900 lm        | 10          |
| <b>0024916</b>                               | 20W/E27     | 20W  | E27 | 2700K       | 1200 lm       | 10          |
| <b>0024917</b>                               | 23W/E27     | 23W  | E27 | 2700K       | 1425 lm       | 10          |
| <b>ML Standard /Economy Cool White (840)</b> |             |      |     |             |               |             |
| <b>0026441</b>                               | 11W/E27     | 11W  | E27 | 4000K       | 600 lm        | 20          |
| <b>0024918</b>                               | 15W/E27     | 15W  | E27 | 4000K       | 900 lm        | 10          |
| <b>0024919</b>                               | 20W/E27     | 20W  | E27 | 4000K       | 1200 lm       | 10          |
| <b>0024915</b>                               | 23W/E27     | 23W  | E27 | 4000K       | 1425 lm       | 10          |

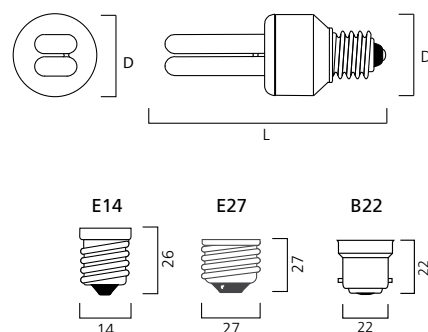


## MINI-LYNX® FAST-START 10K hrs



- Compact, Fast-start energy saving lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14, E27 and B22 Cap
- Available in a wide range of colours, Homelight (827), Cool White (840) & Daylight (860)
- Average rated life 10,000 hrs
- To be used in dry applications

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



## MINI-LYNX® FAST-START 10K hrs

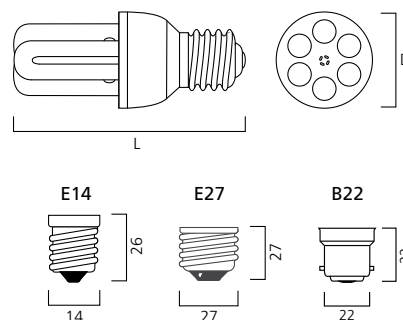
| Code                                             | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|--------------------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>Mini-Lynx Fast-start 10K Homelight (827)</b>  |             |      |     |             |               |             |
| 0031140                                          | 5W/E14      | 5W   | E14 | 2700K       | 250 lm        | 10          |
| 0031141                                          | 5W/E27      | 5W   | E27 | 2700K       | 250 lm        | 10          |
| 0031143                                          | 8W/E14      | 8W   | E14 | 2700K       | 450 lm        | 10          |
| 0031146                                          | 8W/E27      | 8W   | E27 | 2700K       | 450 lm        | 10          |
| 0031147                                          | 8W/B22      | 8W   | B22 | 2700K       | 450 lm        | 10          |
| 0031151                                          | 11W/E14     | 11W  | E14 | 2700K       | 600 lm        | 10          |
| 0031155                                          | 11W/E27     | 11W  | E27 | 2700K       | 600 lm        | 10          |
| 0031159                                          | 11W/B22     | 11W  | B22 | 2700K       | 600 lm        | 10          |
| 0031161                                          | 15W/E27     | 15W  | E27 | 2700K       | 900 lm        | 10          |
| 0031165                                          | 15W/B22     | 15W  | B22 | 2700K       | 900 lm        | 10          |
| 0031167                                          | 20W/E27     | 20W  | E27 | 2700K       | 1200 lm       | 10          |
| 0031171                                          | 20W/B22     | 20W  | B22 | 2700K       | 1200 lm       | 10          |
| 0031173                                          | 23W/E27     | 23W  | E27 | 2700K       | 1450 lm       | 10          |
| 0031176                                          | 23W/B22     | 23W  | B22 | 2700K       | 1450 lm       | 10          |
| <b>Mini-Lynx Fast-start 10K Cool White (840)</b> |             |      |     |             |               |             |
| 0031144                                          | 8W/E14      | 8W   | E14 | 4000K       | 450 lm        | 10          |
| 0031148                                          | 8W/E27      | 8W   | E27 | 4000K       | 450 lm        | 10          |
| 0031152                                          | 11W/E14     | 11W  | E14 | 4000K       | 600 lm        | 10          |
| 0031156                                          | 11W/E27     | 11W  | E27 | 4000K       | 600 lm        | 10          |
| 0031162                                          | 15W/E27     | 15W  | E27 | 4000K       | 900 lm        | 10          |
| 0031168                                          | 20W/E27     | 20W  | E27 | 4000K       | 1200 lm       | 10          |
| 0031174                                          | 23W/E27     | 23W  | E27 | 4000K       | 1450 lm       | 10          |
| <b>Mini-Lynx Fast-start 10K Daylight (860)</b>   |             |      |     |             |               |             |
| 0031149                                          | 8W/E27      | 8W   | E27 | 6000K       | 450 lm        | 10          |
| 0031153                                          | 11W/E14     | 11W  | E14 | 6000K       | 585 lm        | 10          |
| 0031157                                          | 11W/E27     | 11W  | E27 | 6000K       | 585 lm        | 10          |
| 0031163                                          | 15W/E27     | 15W  | E27 | 6000K       | 875 lm        | 10          |
| 0031169                                          | 20W/E27     | 20W  | E27 | 6000K       | 1200 lm       | 10          |
| 0031175                                          | 23W/E27     | 23W  | E27 | 6000K       | 1380 lm       | 10          |

## MINI-LYNX<sup>®</sup> COMPACT FAST-START STICK



- 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 amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14, E27 and B22 Cap
- Available in a wide range of colours, Homelight (827), Cool White (840) & Daylight (860)
- Average rated life 6,000 hrs
- To be used in dry applications

| <b>E14</b> | <b>5W</b> | <b>7W</b> | <b>9W</b> | <b>11W</b> | <b>15W</b> |
|------------|-----------|-----------|-----------|------------|------------|
| L          | 86        | 92        | 102       | 110        | 126        |
| D          | 38        | 38        | 38        | 38         | 43         |
| <b>E27</b> |           |           |           |            |            |
| L          | 84        | 90        | 100       | 108        | 120        |
| D          | 37        | 38        | 38        | 38         | 43         |
| <b>B22</b> |           |           |           |            |            |
| L          | -         | -         | -         | 106        | 118        |
| D          | -         | -         | -         | 38         | 43         |



## MINI-LYNX<sup>®</sup> COMPACT FAST-START

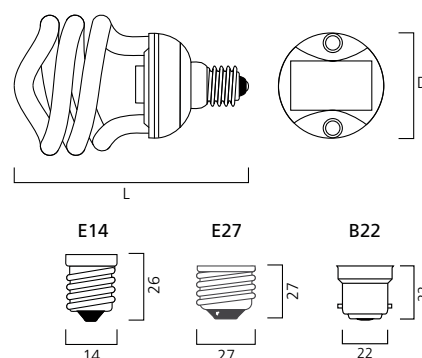
| Code                                                | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|-----------------------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Compact Fast-start Stick Homelight (827)</b>  |             |      |     |             |               |             |
| <b>0031001</b>                                      | 5W/E14      | 5W   | E14 | 2700K       | 180 lm        | 10          |
| <b>0031003</b>                                      | 5W/E27      | 5W   | E27 | 2700K       | 180 lm        | 10          |
| <b>0031019</b>                                      | 7W/E14      | 7W   | E14 | 2700K       | 286 lm        | 10          |
| <b>0031021</b>                                      | 7W/E27      | 7W   | E27 | 2700K       | 286 lm        | 10          |
| <b>0031023</b>                                      | 9W/E14      | 9W   | E14 | 2700K       | 405 lm        | 10          |
| <b>0031025</b>                                      | 9W/E27      | 9W   | E27 | 2700K       | 405 lm        | 10          |
| <b>0031126</b>                                      | 11W/E14     | 11W  | E14 | 2700K       | 540 lm        | 10          |
| <b>0031029</b>                                      | 11W/E27     | 11W  | E27 | 2700K       | 540 lm        | 10          |
| <b>0031031</b>                                      | 11W/B22     | 11W  | B22 | 2700K       | 540 lm        | 10          |
| <b>0031127</b>                                      | 15W/E14     | 15W  | E14 | 2700K       | 800 lm        | 10          |
| <b>0031037</b>                                      | 15W/E27     | 15W  | E27 | 2700K       | 800 lm        | 10          |
| <b>0031039</b>                                      | 15W/B22     | 15W  | B22 | 2700K       | 800 lm        | 10          |
| <b>ML Compact Fast-start Stick Cool White (840)</b> |             |      |     |             |               |             |
| <b>0031027</b>                                      | 9W/E27      | 9W   | E27 | 4000K       | 405 lm        | 10          |
| <b>0031033</b>                                      | 11W/E27     | 11W  | E27 | 4000K       | 540 lm        | 10          |
| <b>0031041</b>                                      | 15W/E27     | 15W  | E27 | 4000K       | 800 lm        | 10          |
| <b>ML Compact Fast-start Stick Daylight (860)</b>   |             |      |     |             |               |             |
| <b>0031035</b>                                      | 11W/E27     | 11W  | E27 | 6000K       | 540 lm        | 10          |
| <b>0031117</b>                                      | 15W/E27     | 15W  | E27 | 6000K       | 800 lm        | 10          |

## MINI-LYNX® COMPACT FAST-START SPIRAL



- Sylvania's smallest fast-start energy saving 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 (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14, E27 and B22 Cap, in Homelight (827) & Cool White (840)
- Average rated life 10,000 hrs
- To be used in dry applications

| <b>E14</b> | <b>8W</b> | <b>12W</b> | <b>15W</b> | <b>20W</b> |
|------------|-----------|------------|------------|------------|
| L          | 89        | 94         | -          | -          |
| D          | 46        | 46         | -          | -          |
| <b>E27</b> |           |            |            |            |
| L          | 84        | 88         | 99         | 108        |
| D          | 46        | 46         | 50         | 54         |
| <b>B22</b> |           |            |            |            |
| L          | -         | 86         | 97         | 106        |
| D          | -         | 46         | 50         | 54         |



## MINI-LYNX® COMPACT FAST-START SPIRAL

| Code                                                 | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|------------------------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Compact Fast-start Spiral Homelight (827)</b>  |             |      |     |             |               |             |
| <b>0031005</b>                                       | 8W/E14      | 8W   | E14 | 2700K       | 405 lm        | 10          |
| <b>0031007</b>                                       | 8W/E27      | 8W   | E27 | 2700K       | 405 lm        | 10          |
| <b>0031123</b>                                       | 12W/E14     | 12W  | E14 | 2700K       | 630 lm        | 10          |
| <b>0031009</b>                                       | 12W/E27     | 12W  | E27 | 2700K       | 630 lm        | 10          |
| <b>0031011</b>                                       | 12W/B22     | 12W  | B22 | 2700K       | 630 lm        | 10          |
| <b>0031013</b>                                       | 15W/E27     | 15W  | E27 | 2700K       | 845 lm        | 10          |
| <b>0031015</b>                                       | 15W/B22     | 15W  | B22 | 2700K       | 845 lm        | 10          |
| <b>0031249</b>                                       | 20W/E27     | 20W  | E27 | 2700K       | 1200 lm       | 10          |
| <b>0031139</b>                                       | 20W/B22     | 20W  | B22 | 2700K       | 1200 lm       | 10          |
| <b>ML Compact Fast-start Spiral Cool White (840)</b> |             |      |     |             |               |             |
| <b>0031017</b>                                       | 15W/E27     | 15W  | E27 | 4000K       | 845 lm        | 10          |
| <b>0031250</b>                                       | 20W/E27     | 20W  | E27 | 4000K       | 1200 lm       | 10          |



## MINI-LYNX<sup>®</sup> COMPACT GLS

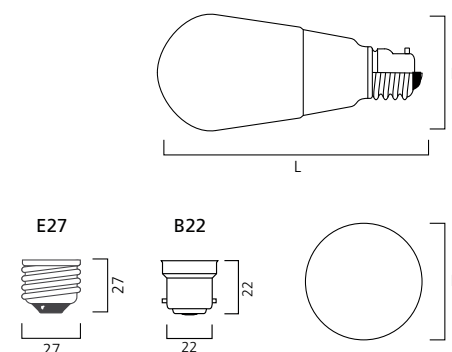


- Compact dimensions
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- Opal housing -Delivers all-round illumination whilst hiding the fluorescent tube design
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E27 and B22 Cap, in Homelight (827) & Cool White (840)
- Average rated life 10,000 hrs
- To be used in dry applications

| E27 | 7W  | 11W | 15W | 20W |
|-----|-----|-----|-----|-----|
| L   | 116 | 130 | 130 | 149 |
| D   | 60  | 64  | 64  | 75  |

| B22 | 7W | 11W | 15W | 20W |
|-----|----|-----|-----|-----|
| L   | -  | 128 | 128 | 147 |
| D   | -  | 64  | 64  | 75  |



## MINI-LYNX<sup>®</sup> COMPACT GLS

| Code                           | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|--------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML GLS Homelight (827)</b>  |             |      |     |             |               |             |
| 0024961                        | 7W/E27      | 7W   | E27 | 2700K       | 360 lm        | 10          |
| 0024962                        | 11W/E27     | 11W  | E27 | 2700K       | 610 lm        | 10          |
| 0031071                        | 11W/B22     | 11W  | B22 | 2700K       | 610 lm        | 10          |
| 0031073                        | 15W/E27     | 15W  | E27 | 2700K       | 810 lm        | 10          |
| 0031075                        | 15W/B22     | 15W  | B22 | 2700K       | 810 lm        | 10          |
| 0031213                        | 20W/E27     | 20W  | E27 | 2700K       | 1152 lm       | 10          |
| 0031211                        | 20W/B22     | 20W  | B22 | 2700K       | 1152 lm       | 10          |
| <b>ML GLS Cool White (840)</b> |             |      |     |             |               |             |
| 0024988                        | 11W/E27     | 11W  | E27 | 4000K       | 610 lm        | 10          |
| 0031077                        | 15W/E27     | 15W  | E27 | 4000K       | 810 lm        | 10          |
| 0031122                        | 20W/E27     | 20W  | E27 | 4000K       | 1152 lm       | 10          |

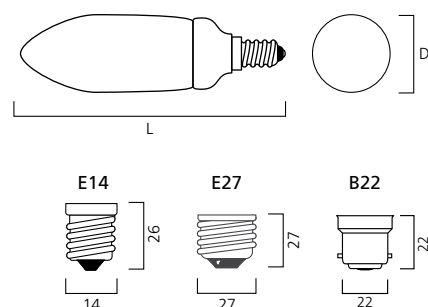


## MINI-LYNX<sup>®</sup> COMPACT CANDLE



- Compact dimensions
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- Opal housing -Delivers all-round illumination whilst hiding the fluorescent tube design
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14, E27 and B22 Cap, in Homelight (827) & Cool White (840)
- Average rated life 10,000 hrs
- To be used in dry applications

| <b>E14</b> | <b>5W</b> | <b>7W</b> | <b>9W</b> |
|------------|-----------|-----------|-----------|
| L          | 114       | 114       | 126       |
| D          | 39        | 39        | 39        |
| <b>E27</b> |           |           |           |
| L          | -         | 110       | 122       |
| D          | -         | 39        | 39        |
| <b>B22</b> |           |           |           |
| L          | 108       | 108       | 120       |
| D          | 38        | 38        | 39        |



## MINI-LYNX<sup>®</sup> COMPACT CANDLE

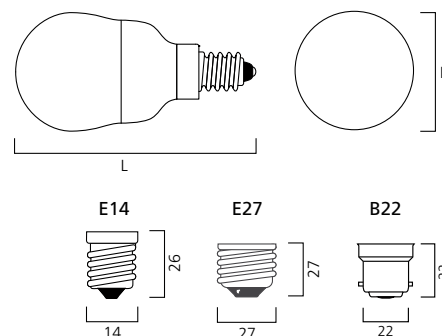
| Code                              | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|-----------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Candle Homelight (827)</b>  |             |      |     |             |               |             |
| <b>0031085</b>                    | 5W/E14      | 5W   | E14 | 2700K       | 200 lm        | 10          |
| <b>0031089</b>                    | 7W/E14      | 7W   | E14 | 2700K       | 286 lm        | 10          |
| <b>0031091</b>                    | 7W/E27      | 7W   | E27 | 2700K       | 286 lm        | 10          |
| <b>0031093</b>                    | 7W/B22      | 7W   | B22 | 2700K       | 286 lm        | 10          |
| <b>0031095</b>                    | 9W/E14      | 9W   | E14 | 2700K       | 405 lm        | 10          |
| <b>0031097</b>                    | 9W/E27      | 9W   | E27 | 2700K       | 405 lm        | 10          |
| <b>0031103</b>                    | 9W/B22      | 9W   | B22 | 2700K       | 405 lm        | 10          |
| <b>ML Candle Cool White (840)</b> |             |      |     |             |               |             |
| <b>0031087</b>                    | 5W/E14      | 5W   | E14 | 4000K       | 200 lm        | 10          |
| <b>0031099</b>                    | 9W/E27      | 9W   | E27 | 4000K       | 405 lm        | 10          |
| <b>0031101</b>                    | 9W/E14      | 9W   | E14 | 4000K       | 405 lm        | 10          |
| <b>0031102</b>                    | 9W/B22      | 9W   | B22 | 4000K       | 405 lm        | 10          |

## MINI-LYNX® COMPACT BALL



- Compact dimensions
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- Opal housing -Delivers all-round illumination whilst hiding the fluorescent spiral design
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14, E27 and B22 Cap, in Homelight (827) & Cool White (840)
- Average rated life 10,000 hrs
- To be used in dry applications

| <b>E14</b> | <b>5W</b> | <b>7W</b> | <b>9W</b> |
|------------|-----------|-----------|-----------|
| L          | 88        | 96        | 103       |
| D          | 45        | 50        | 50        |
| <b>E27</b> | <b>7W</b> | <b>9W</b> |           |
| L          | -         | 91        | 98        |
| D          | -         | 50        | 50        |
| <b>B22</b> | <b>7W</b> | <b>9W</b> |           |
| L          | -         | 89        | 96        |
| D          | -         | 50        | 50        |



## MINI-LYNX® COMPACT BALL

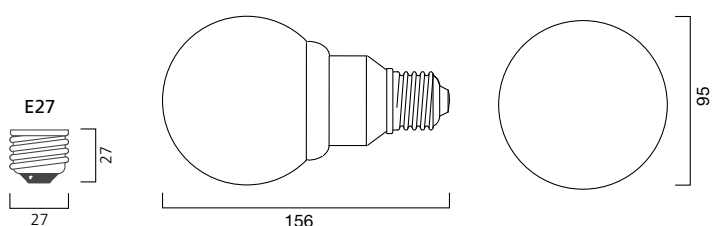
| Code                            | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Ball Homelight (827)</b>  |             |      |     |             |               |             |
| <b>0031055</b>                  | 5W/E14      | 5W   | E14 | 2700K       | 200 lm        | 10          |
| <b>0031118</b>                  | 7W/E14      | 7W   | E14 | 2700K       | 286 lm        | 10          |
| <b>0031057</b>                  | 7W/E27      | 7W   | E27 | 2700K       | 286 lm        | 10          |
| <b>0031059</b>                  | 7W/B22      | 7W   | B22 | 2700K       | 286 lm        | 10          |
| <b>0031061</b>                  | 9W/E14      | 9W   | E14 | 2700K       | 405 lm        | 10          |
| <b>0031063</b>                  | 9W/E27      | 9W   | E27 | 2700K       | 405 lm        | 10          |
| <b>0031065</b>                  | 9W/EB22     | 9W   | B22 | 2700K       | 405 lm        | 10          |
| <b>ML Ball Cool White (840)</b> |             |      |     |             |               |             |
| <b>0031116</b>                  | 9W/E14      | 9W   | E14 | 4000K       | 405 lm        | 10          |
| <b>0031064</b>                  | 9W/E27      | 9W   | E27 | 4000K       | 405 lm        | 10          |



## MINI-LYNX® GLOBE



- Globe shaped energy saving lamp
- Provides a flicker-free start within 2 seconds
- Opal housing -Delivers all-round illumination whilst hiding the fluorescent spiral design
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E27 Cap, in Homelight (827)
- Average rated life 6,000 hrs
- To be used in dry applications



## MINI-LYNX® GLOBE

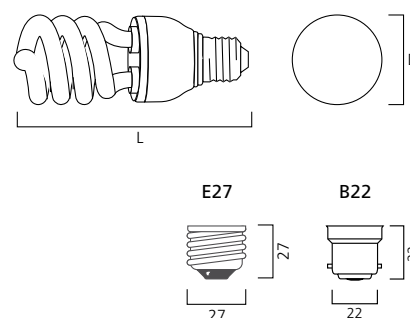
| Code            | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|-----------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Globe</b> |             |      |     |             |               |             |
| <b>0024965</b>  | 20W/E27     | 20W  | E27 | 2700K       | 1153 lm       | 10          |



## MINI-LYNX® DIMMABLE



- Dimmable from 100% - 3%
- Two versions - Dimmer dimmable for use with a dimmer switch, switch dimmable for use with standard
- Spiral design for maximum light dispersal
- No liquid mercury (<3.5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E27 and B22 Cap in Homelight (827)
- Average rated life 16.000 hrs
- To be used in dry applications



|   | E27 | B22 |
|---|-----|-----|
| L | 124 | 122 |
| D | 54  | 54  |

## MINI-LYNX® DIMMABLE

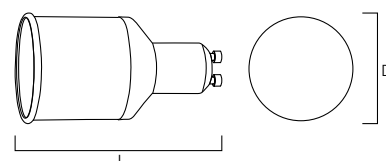
| Code                               | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML Dimmable Homelight (827)</b> |             |      |     |             |               |             |
| <b>0024833</b>                     | 20W/E27     | 20W  | E27 | 2700K       | 1300 lm       | 10          |
| <b>0024834</b>                     | 20W/E27     | 20W  | E27 | 2700K       | 1300 lm       | 10          |



## MINI-LYNX® REFLECTOR GU10



- Energy saving alternative to standard Halogen lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- No liquid mercury (<5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with GU10 Cap, in Homelight (827) & Cool White (840)
- Average rated life 8,000 hrs
- To be used in dry applications



GU10



| GU10 | 5W | 7W | 9W |
|------|----|----|----|
| L    | 82 | 82 | 91 |
| D    | 50 | 50 | 52 |

## MINI-LYNX® REFLECTOR GU10

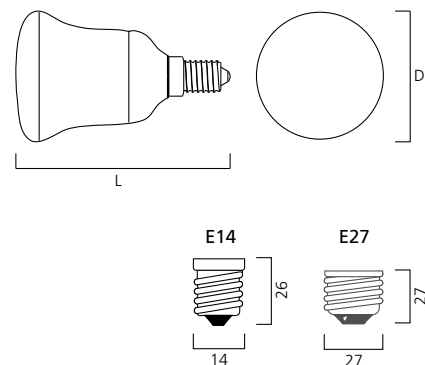
| Code                         | Description | Watt | Cap  | Colour Temp | Luminous Flux | Packing Qty |
|------------------------------|-------------|------|------|-------------|---------------|-------------|
| <b>GU10 Homelight (827)</b>  |             |      |      |             |               |             |
| 0031047                      | 7W/GU10     | 7W   | GU10 | 2700K       | 210 lm        | 10          |
| 0031049                      | 9W/GU10     | 9W   | GU10 | 2700K       | 230 lm        | 10          |
| 0031051                      | 11W/GU10    | 11W  | GU10 | 2700K       | 245 lm        | 10          |
| <b>GU10 Cool White (840)</b> |             |      |      |             |               |             |
| 0031053                      | 11W/GU10    | 11W  | GU10 | 4000K       | 245 lm        | 10          |



## MINI-LYNX<sup>®</sup> R50 - R80 REFLECTOR



- Energy saving alternative to reflector incandescent lamps
- Provides a flicker-free start within 2 seconds
- Delivers 60% light in less than 1 minute – no waiting
- No liquid mercury (<5mg amalgam pill)
- Good colour rendering (>80Ra)
- Available with E14 and E27 Cap, in Homelight (827)
- Average rated life 10,000 hrs
- To be used in dry applications



| E14 | 5W | 9W  | 15W | 20W |
|-----|----|-----|-----|-----|
| L   | 85 | 107 | -   | -   |
| D   | 50 | 63  | -   | -   |
| E27 | 5W | 9W  | 15W | 20W |
| L   | -  | 105 | 122 | 132 |
| D   | -  | 63  | 80  | 80  |

## MINI-LYNX<sup>®</sup> R50 - R80 REFLECTOR

| Code                          | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|-------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>ML R50 - R80 Reflector</b> |             |      |     |             |               |             |
| <b>0031120</b>                | 5W/E14      | 5W   | E14 | 2700K       | 165 lm        | 10          |
| <b>0031107</b>                | 9W/E14      | 9W   | E14 | 2700K       | 270 lm        | 10          |
| <b>0031109</b>                | 9W/E27      | 9W   | E27 | 2700K       | 270 lm        | 10          |
| <b>0031113</b>                | 15W/E27     | 15W  | E27 | 2700K       | 645 lm        | 10          |
| <b>0031115</b>                | 20W/E27     | 20W  | E27 | 2700K       | 675 lm        | 10          |

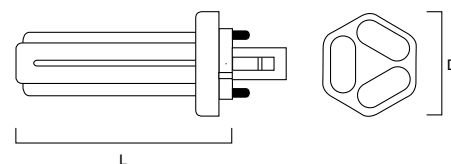


## LYNX®-T

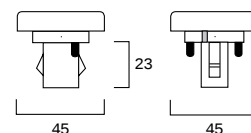


- Multi-limbed compact fluorescent lamps
- Excellent colour rendering – Ra85/ Class 1B
- For use with magnetic ballast
- Average rated life: 15000 hours

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



GX24d



## LYNX®-T

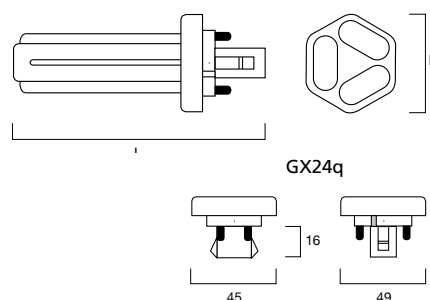
| Code                                  | Description | Watt | Cap     | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|---------|-------------|---------------|-------------|
| <b>Lynx-T Warm White Deluxe (830)</b> |             |      |         |             |               |             |
| <b>0027801</b>                        | 18W/830     | 18W  | GX24d-2 | 3000K       | 1200 lm       | 10          |
| <b>0027811</b>                        | 26W/830     | 26W  | GX24d-3 | 3000K       | 1800 lm       | 10          |
| <b>Lynx-T Cool White Deluxe (840)</b> |             |      |         |             |               |             |
| <b>0027802</b>                        | 18W/840     | 18W  | GX24d-2 | 4000K       | 1200 lm       | 10          |
| <b>0027812</b>                        | 26W/840     | 26W  | GX24d-3 | 4000K       | 1800 lm       | 10          |



## LYNX® - TE AMALGAM



- 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 - Ra 80 - 89 / Class 1B
- To be operated on electronic ballasts only
- Not recommended for dimming applications
- Average rated life: 15000 hours



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

## LYNX® - TE AMALGAM

| Code                                   | Description | Watt | Cap     | Colour Temp | Luminous Flux | Packing Qty |
|----------------------------------------|-------------|------|---------|-------------|---------------|-------------|
| <b>Lynx-TE Warm White Deluxe (830)</b> |             |      |         |             |               |             |
| <b>0027817</b>                         | 18W/830     | 18W  | GX24q-2 | 3000K       | 1200 lm       | 10          |
| <b>0027822</b>                         | 26W/830     | 26W  | GX24q-3 | 3000K       | 1800 lm       | 10          |
| <b>0027842</b>                         | 32W/830     | 32W  | GX24q-3 | 3000K       | 2400 lm       | 10          |
| <b>0027844</b>                         | 42W/830     | 42W  | GX24q-4 | 3000K       | 3200 lm       | 10          |
| <b>Lynx-TE Cool White Deluxe (840)</b> |             |      |         |             |               |             |
| <b>0027816</b>                         | 18W/840     | 18W  | GX24q-2 | 4000K       | 1200 lm       | 10          |
| <b>0027821</b>                         | 26W/840     | 26W  | GX24q-3 | 4000K       | 1800 lm       | 10          |
| <b>0027840</b>                         | 32W/840     | 32W  | GX24q-3 | 4000K       | 2400 lm       | 10          |
| <b>0027845</b>                         | 42W/840     | 42W  | GX24q-4 | 4000K       | 3200 lm       | 10          |



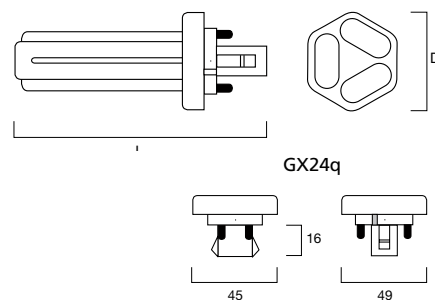
## LYNX® - TE FSD



universal



- Highly efficient light source uses up to 80% less energy than equivalent incandescent lamps.
- Excellent colour rendering - Ra 80 - 89 / Class 1B
- Rapid Run-up
- Can be used in dimming applications
- Average Rated Life 15000 hrs



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

## LYNX® - TE FSD

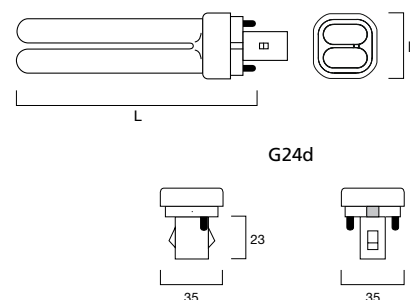
| Code                                       | Description | Watt | Cap     | Colour Temp | Luminous Flux | Packing Qty |
|--------------------------------------------|-------------|------|---------|-------------|---------------|-------------|
| <b>Lynx-TE FSD Warm White Deluxe (830)</b> |             |      |         |             |               |             |
| <b>0027851</b>                             | 18W/830     | 18W  | GX24q-2 | 3000K       | 1200 lm       | 10          |
| <b>0027854</b>                             | 26W/830     | 26W  | GX24q-3 | 3000K       | 1800 lm       | 10          |
| <b>0027857</b>                             | 32W/830     | 32W  | GX24q-3 | 3000K       | 2400 lm       | 10          |
| <b>0027860</b>                             | 42W/830     | 42W  | GX24q-4 | 3000K       | 3200 lm       | 10          |
| <b>Lynx-TE FSD Cool White Deluxe (840)</b> |             |      |         |             |               |             |
| <b>0027852</b>                             | 18W/840     | 18W  | GX24q-2 | 4000K       | 1200 lm       | 10          |
| <b>0027855</b>                             | 26W/840     | 26W  | GX24q-3 | 4000K       | 1800 lm       | 10          |
| <b>0027858</b>                             | 32W/840     | 32W  | GX24q-3 | 4000K       | 2400 lm       | 10          |
| <b>0027861</b>                             | 42W/840     | 42W  | GX24q-4 | 4000K       | 3200 lm       | 10          |



## LYNX® - D



- Two U shaped tubes and a 2 pin base which incorporates the starter and capacitor
- Excellent colour rendering – Ra85/Class 1B
- For use with magnetic ballast
- Uses considerably less power and last up to 10 times longer than incandescent lamps
- Average rated life: 10000 hours



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

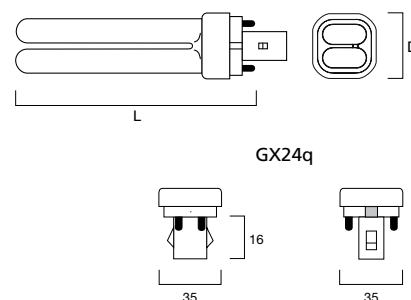
## LYNX®-D

| Code                                  | Description | Watt | Cap    | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|--------|-------------|---------------|-------------|
| <b>Lynx-D Homelight Deluxe (827)</b>  |             |      |        |             |               |             |
| 0025904                               | 10W/827     | 10W  | G24d-1 | 2700K       | 600 lm        | 10          |
| 0025905                               | 13W/827     | 13W  | G24d-1 | 2700K       | 900 lm        | 10          |
| 0025906                               | 18W/827     | 18W  | G24d-2 | 2700K       | 1200 lm       | 10          |
| 0025907                               | 26W/827     | 26W  | G24d-3 | 2700K       | 1800 lm       | 10          |
| <b>Lynx-D Warm White Deluxe (830)</b> |             |      |        |             |               |             |
| 0025908                               | 10W/830     | 10W  | G24d-1 | 3000K       | 600 lm        | 10          |
| 0025909                               | 13W/830     | 13W  | G24d-1 | 3000K       | 900 lm        | 10          |
| 0025910                               | 18W/830     | 18W  | G24d-2 | 3000K       | 1200 lm       | 10          |
| 0025911                               | 26W/830     | 26W  | G24d-3 | 3000K       | 1800 lm       | 10          |
| <b>Lynx-D White Deluxe (835)</b>      |             |      |        |             |               |             |
| 0025941                               | 13W/835     | 13W  | G24d-1 | 3500K       | 900 lm        | 10          |
| 0025942                               | 18W/835     | 18W  | G24d-2 | 3500K       | 1200 lm       | 10          |
| 0025943                               | 26W/835     | 26W  | G24d-3 | 3500K       | 1800 lm       | 10          |
| <b>Lynx-D Cool White Deluxe (840)</b> |             |      |        |             |               |             |
| 0025912                               | 10W/840     | 10W  | G24d-1 | 4000K       | 600 lm        | 10          |
| 0025913                               | 13W/840     | 13W  | G24d-1 | 4000K       | 900 lm        | 10          |
| 0025914                               | 18W/840     | 18W  | G24d-2 | 4000K       | 1200 lm       | 10          |
| 0025915                               | 26W/840     | 26W  | G24d-3 | 4000K       | 1800 lm       | 10          |
| <b>Lynx-D Daylight Deluxe (860)</b>   |             |      |        |             |               |             |
| 0028322                               | 10W/860     | 10W  | G24d-1 | 6000K       | 600 lm        | 10          |
| 0028323                               | 13W/860     | 13W  | G24d-1 | 6000K       | 900 lm        | 10          |
| 0028324                               | 18W/860     | 18W  | G24d-2 | 6000K       | 1200 lm       | 10          |
| 0028325                               | 26W/860     | 26W  | G24d-3 | 6000K       | 1800 lm       | 10          |

## LYNX® - DE



- Two U shaped tubes and a 4 pin base without starter or capacitor
- Excellent colour rendering – Ra85/Class 1B
- To be operated on electronic ballast only
- Suitable for emergency lighting
- Average rated life: 12000 hours



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

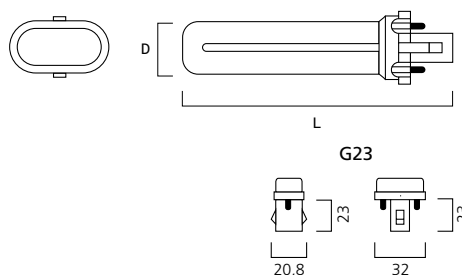
## LYNX® - DE

| Code                                   | Description | Watt | Cap    | Colour Temp | Luminous Flux | Packing Qty |
|----------------------------------------|-------------|------|--------|-------------|---------------|-------------|
| <b>Lynx-DE Homelight Deluxe (827)</b>  |             |      |        |             |               |             |
| 0025916                                | 10W/827     | 10W  | G24q-1 | 2700K       | 600 lm        | 10          |
| 0025917                                | 13W/827     | 13W  | G24q-1 | 2700K       | 900 lm        | 10          |
| 0025918                                | 18W/827     | 18W  | G24q-2 | 2700K       | 1200 lm       | 10          |
| 0025919                                | 26W/827     | 26W  | G24q-3 | 2700K       | 1800 lm       | 10          |
| <b>Lynx-DE Warm White Deluxe (830)</b> |             |      |        |             |               |             |
| 0025920                                | 10W/830     | 10W  | G24q-1 | 3000K       | 600 lm        | 10          |
| 0025921                                | 13W/830     | 13W  | G24q-1 | 3000K       | 900 lm        | 10          |
| 0025922                                | 18W/830     | 18W  | G24q-2 | 3000K       | 1200 lm       | 10          |
| 0025923                                | 26W/830     | 26W  | G24q-3 | 3000K       | 1800 lm       | 10          |
| <b>Lynx-DE White Deluxe (835)</b>      |             |      |        |             |               |             |
| 0025945                                | 13W/835     | 13W  | G24q-1 | 3500K       | 900 lm        | 10          |
| 0025946                                | 18W/835     | 18W  | G24q-2 | 3500K       | 1200 lm       | 10          |
| 0025947                                | 26W/835     | 26W  | G24q-3 | 3500K       | 1800 lm       | 10          |
| <b>Lynx-DE Cool White Deluxe (840)</b> |             |      |        |             |               |             |
| 0025924                                | 10W/840     | 10W  | G24q-1 | 4000K       | 600 lm        | 10          |
| 0025925                                | 13W/840     | 13W  | G24q-1 | 4000K       | 900 lm        | 10          |
| 0025926                                | 18W/840     | 18W  | G24q-2 | 4000K       | 1200 lm       | 10          |
| 0025927                                | 26W/840     | 26W  | G24q-3 | 4000K       | 1800 lm       | 10          |
| <b>Lynx-DE Daylight Deluxe (860)</b>   |             |      |        |             |               |             |
| 0025948                                | 10W/860     | 10W  | G24q-1 | 6000K       | 600 lm        | 10          |
| 0025949                                | 13W/860     | 13W  | G24q-1 | 6000K       | 900 lm        | 10          |
| 0025950                                | 18W/860     | 18W  | G24q-2 | 6000K       | 1200 lm       | 10          |
| 0025951                                | 26W/860     | 26W  | G24q-3 | 6000K       | 1800 lm       | 10          |

## LYNX<sup>®</sup>-S



- U shaped tube and a 2 pin base which incorporates the starter and capacitor
- Excellent colour rendering – Ra85/Class 1B
- For use with magnetic ballast
- Average rated life: 10000 hours



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

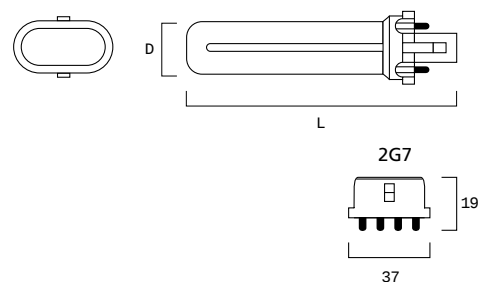
## LYNX<sup>®</sup>-S

| Code                                  | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>Lynx-S Homelight Deluxe (827)</b>  |             |      |     |             |               |             |
| 0025880                               | 5W/827      | 5W   | G23 | 2700K       | 250 lm        | 10          |
| 0025881                               | 7W/827      | 7W   | G23 | 2700K       | 420 lm        | 10          |
| 0025882                               | 9W/827      | 9W   | G23 | 2700K       | 600 lm        | 10          |
| 0025883                               | 11W/827     | 11W  | G23 | 2700K       | 900 lm        | 10          |
| <b>Lynx-S Warm White Deluxe (830)</b> |             |      |     |             |               |             |
| 0025884                               | 5W/830      | 5W   | G23 | 3000K       | 250 lm        | 10          |
| 0025885                               | 7W/830      | 7W   | G23 | 3000K       | 420 lm        | 10          |
| 0025886                               | 9W/830      | 9W   | G23 | 3000K       | 600 lm        | 10          |
| 0025887                               | 11W/830     | 11W  | G23 | 3000K       | 900 lm        | 10          |
| <b>Lynx-S Cool White Deluxe (840)</b> |             |      |     |             |               |             |
| 0025888                               | 5W/840      | 5W   | G23 | 4000K       | 250 lm        | 10          |
| 0025889                               | 7W/840      | 7W   | G23 | 4000K       | 420 lm        | 10          |
| 0025890                               | 9W/840      | 9W   | G23 | 4000K       | 600 lm        | 10          |
| 0025891                               | 11W/840     | 11W  | G23 | 4000K       | 900 lm        | 10          |

## LYNX<sup>®</sup>-SE



- U shaped tubes and a 4 pin base without starter or capacitor
- Excellent colour rendering – Ra85/Class 1B
- To be operated on electronic ballast only
- Suitable for emergency lighting
- Average rated life: 10000 hours

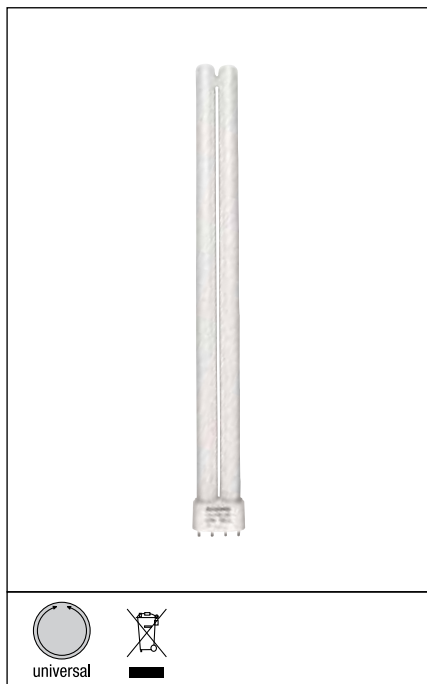


| 2G7 | 5W | 7W  | 9W  | 11W |
|-----|----|-----|-----|-----|
| L   | 85 | 115 | 145 | 215 |
| D   | 28 | 28  | 28  | 28  |

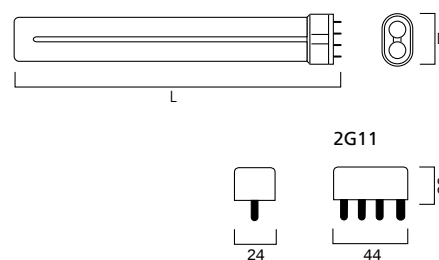
## LYNX<sup>®</sup>-SE

| Code                                   | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|----------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>Lynx-SE Homelight Deluxe (827)</b>  |             |      |     |             |               |             |
| <b>0025892</b>                         | 5W/827      | 5W   | 2G7 | 2700K       | 250 lm        | 10          |
| <b>0025893</b>                         | 7W/827      | 7W   | 2G7 | 2700K       | 420 lm        | 10          |
| <b>0025894</b>                         | 9W/827      | 9W   | 2G7 | 2700K       | 600 lm        | 10          |
| <b>0025895</b>                         | 11W/827     | 11W  | 2G7 | 2700K       | 900 lm        | 10          |
| <b>Lynx-SE Warm White Deluxe (830)</b> |             |      |     |             |               |             |
| <b>0025896</b>                         | 5W/830      | 5W   | 2G7 | 3000K       | 250 lm        | 10          |
| <b>0025897</b>                         | 7W/830      | 7W   | 2G7 | 3000K       | 420 lm        | 10          |
| <b>0025898</b>                         | 9W/830      | 9W   | 2G7 | 3000K       | 600 lm        | 10          |
| <b>0025899</b>                         | 11W/830     | 11W  | 2G7 | 3000K       | 900 lm        | 10          |
| <b>Lynx-SE Cool White Deluxe (840)</b> |             |      |     |             |               |             |
| <b>0025900</b>                         | 5W/840      | 5W   | 2G7 | 4000K       | 250 lm        | 10          |
| <b>0025901</b>                         | 7W/840      | 7W   | 2G7 | 4000K       | 420 lm        | 10          |
| <b>0025902</b>                         | 9W/840      | 9W   | 2G7 | 4000K       | 600 lm        | 10          |
| <b>0025903</b>                         | 11W/840     | 11W  | 2G7 | 4000K       | 900 lm        | 10          |

## LYNX®-L



- Excellent colour rendering – Ra85/Class 1B
- 4-pin 2G11 cap without starter or capacitor
- Suitable for use in modular ceiling luminaires 300 x 300mm or 600 x 600mm
- To be used with magnetic ballast with remote starter and capacitor or on electronic ballast
- Dimmable with suitable ballast
- Average rated life: 15000 hours

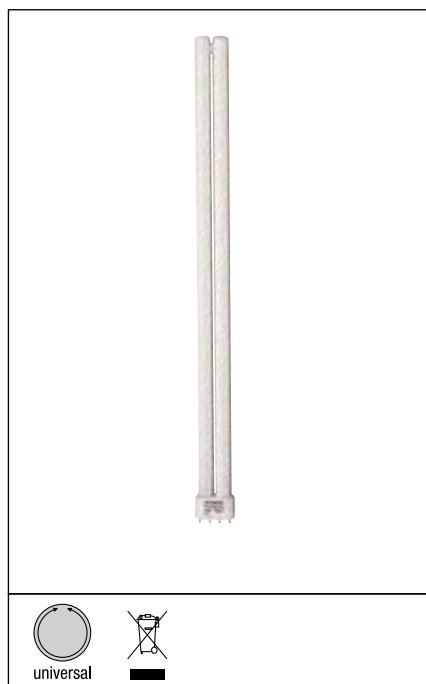


| 2G11 | 18W | 24W | 36W |
|------|-----|-----|-----|
| L    | 225 | 320 | 415 |
| D    | 38  | 38  | 38  |

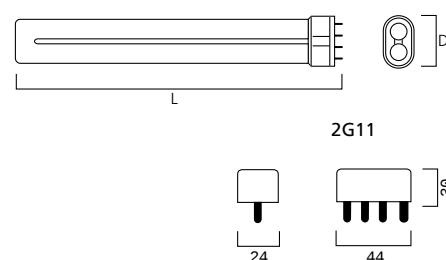
## LYNX®-L

| Code                                  | Description | Watt | Cap  | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|------|-------------|---------------|-------------|
| <b>Lynx-L Homelight Deluxe (827)</b>  |             |      |      |             |               |             |
| <b>0025226</b>                        | 18W/827     | 18W  | 2G11 | 2700K       | 1200 lm       | 10          |
| <b>0025227</b>                        | 24W/827     | 24W  | 2G11 | 2700K       | 1800 lm       | 10          |
| <b>0025228</b>                        | 36W/827     | 36W  | 2G11 | 2700K       | 2900 lm       | 10          |
| <b>Lynx-L Warm White Deluxe (830)</b> |             |      |      |             |               |             |
| <b>0925233</b>                        | 18W/830     | 18W  | 2G11 | 3000K       | 1200 lm       | 10          |
| <b>0925235</b>                        | 24W/830     | 24W  | 2G11 | 3000K       | 1800 lm       | 10          |
| <b>0925237</b>                        | 36W/830     | 36W  | 2G11 | 3000K       | 2900 lm       | 10          |
| <b>Lynx-L Cool White Deluxe (840)</b> |             |      |      |             |               |             |
| <b>0925234</b>                        | 18W/840     | 18W  | 2G11 | 4000K       | 1200 lm       | 10          |
| <b>0925236</b>                        | 24W/840     | 24W  | 2G11 | 4000K       | 1800 lm       | 10          |
| <b>0925238</b>                        | 36W/840     | 36W  | 2G11 | 4000K       | 2900 lm       | 10          |
| <b>Lynx-L Daylight Deluxe (865)</b>   |             |      |      |             |               |             |
| <b>0025685</b>                        | 18W/865     | 18W  | 2G11 | 6000K       | 1200 lm       | 10          |
| <b>0025686</b>                        | 24W/865     | 24W  | 2G11 | 6000K       | 1800 lm       | 10          |
| <b>0025687</b>                        | 36W/865     | 36W  | 2G11 | 6000K       | 2900 lm       | 10          |

## LYNX® - LE



- Excellent colour rendering – Ra85/Class 1B
- 4-pin 2G11 cap without starter or capacitor
- Suitable for use in modular ceiling luminaires – 600 x 600mm
- To be used with electronic ballast only
- Dimmable with suitable ballast
- Average rated life: 15000 hours



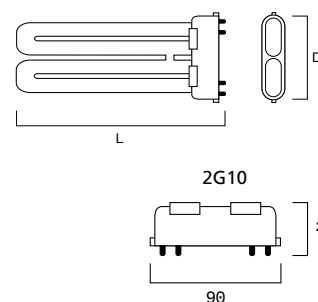
### LYNX®-LE

| Code                                   | Description | Watt | Cap  | Colour Temp | Luminous Flux | Packing Qty |
|----------------------------------------|-------------|------|------|-------------|---------------|-------------|
| <b>Lynx-LE Homelight Deluxe (827)</b>  |             |      |      |             |               |             |
| <b>0025463</b>                         | 55W/827     | 55W  | 2G11 | 2700K       | 4800 lm       | 10          |
| <b>Lynx-LE Warm White Deluxe (830)</b> |             |      |      |             |               |             |
| <b>0925461</b>                         | 40W/830     | 40W  | 2G11 | 3000K       | 3500 lm       | 10          |
| <b>0925464</b>                         | 55W/830     | 55W  | 2G11 | 3000K       | 4800 lm       | 10          |
| <b>Lynx-LE White Deluxe (835)</b>      |             |      |      |             |               |             |
| <b>0027914</b>                         | 40W/835     | 40W  | 2G11 | 3500K       | 3500 lm       | 10          |
| <b>0027916</b>                         | 55W/835     | 55W  | 2G11 | 3500K       | 4800 lm       | 10          |
| <b>Lynx-LE Cool White Deluxe (840)</b> |             |      |      |             |               |             |
| <b>0925462</b>                         | 40W/840     | 40W  | 2G11 | 4000K       | 3500 lm       | 10          |
| <b>0925465</b>                         | 55W/840     | 55W  | 2G11 | 4000K       | 4800 lm       | 10          |
| <b>Lynx-LE Daylight Deluxe (865)</b>   |             |      |      |             |               |             |
| <b>0025688</b>                         | 40W/865     | 40W  | 2G11 | 6000K       | 3500 lm       | 10          |
| <b>0025689</b>                         | 55W/865     | 55W  | 2G11 | 6000K       | 4800 lm       | 10          |

## LYNX®-F



- Multi-limbed compact fluorescent lamps
- Half the length of corresponding L types
- Very good colour rendering – Ra85/Class 1B
- Ideal for small, flat luminaires for wall and ceiling mounting
- To be used with conventional magnetic or electronic ballast
- Average rated life: 15000 hours



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

## LYNX®-F

| Code                                  | Description | Watt | Cap  | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|------|-------------|---------------|-------------|
| <b>Lynx-F Warm White Deluxe (830)</b> |             |      |      |             |               |             |
| <b>0027830</b>                        | 24W/830     | 24W  | 2G10 | 3000K       | 1700 lm       | 10          |
| <b>0027835</b>                        | 36W/830     | 36W  | 2G10 | 3000K       | 2800 lm       | 10          |
| <b>Lynx-F Cool White Deluxe (840)</b> |             |      |      |             |               |             |
| <b>0027826</b>                        | 18W/840     | 18W  | 2G10 | 4000K       | 1100 lm       | 10          |
| <b>0027831</b>                        | 24W/840     | 24W  | 2G10 | 4000K       | 1700 lm       | 10          |
| <b>0027836</b>                        | 36W/840     | 36W  | 2G10 | 4000K       | 2800 lm       | 10          |



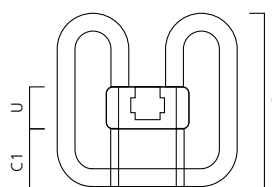
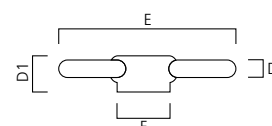
## LYNX<sup>®</sup>-Q



universal



- Flat profile, slim, high output lamps
- Excellent colour rendering - Ra 85/ Class 1B
- 2-pin GR8 cap incorporate starter
- To be used with conventional magnetic gear
- Average rated life 10000 hours



| Lynx-Q | C    | C1   | D    | D1   | E    | F    | U    |
|--------|------|------|------|------|------|------|------|
|        | max. | max. | max. | max. | max. | max. | max. |
| 16W    | 141  | 51   | 15   | 27,5 | 138  | 41   | 40   |

## LYNX<sup>®</sup>-Q

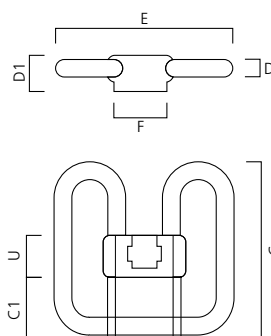
| Code                                  | Description | Watt | Cap | Colour Temp | Luminous Flux | Packing Qty |
|---------------------------------------|-------------|------|-----|-------------|---------------|-------------|
| <b>Lynx-Q Homelight Deluxe (827)</b>  |             |      |     |             |               |             |
| <b>0024944</b>                        | Lynx Q      | 16W  | GR8 | 2700K       | 1050 lm       | 10          |
| <b>Lynx-Q White Deluxe (835)</b>      |             |      |     |             |               |             |
| <b>0024946</b>                        | Lynx Q      | 16W  | GR8 | 3500K       | 1050 lm       | 10          |
| <b>Lynx-Q Cool White Deluxe (840)</b> |             |      |     |             |               |             |
| <b>0024947</b>                        | Lynx Q      | 16W  | GR8 | 4000K       | 1050 lm       | 10          |



## LYNX® -QE



- Flat profile, slim, high output lamps
- Excellent colour rendering - Ra 85/ Class 1B
- 4-pin GR10q cap without starter
- To be used with electronic ballast
- Dimmable with suitable ballast
- Average rated life 10000 hours

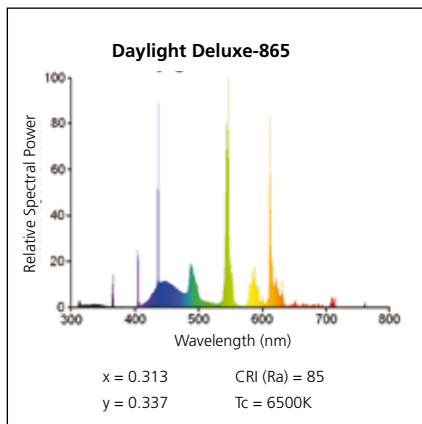
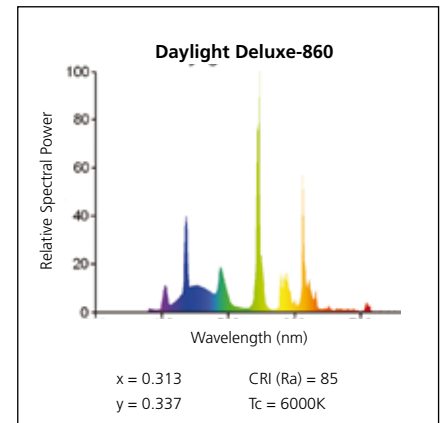
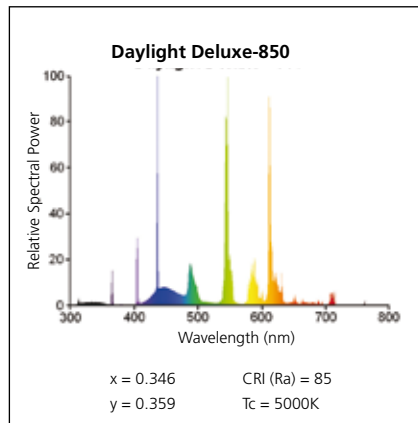
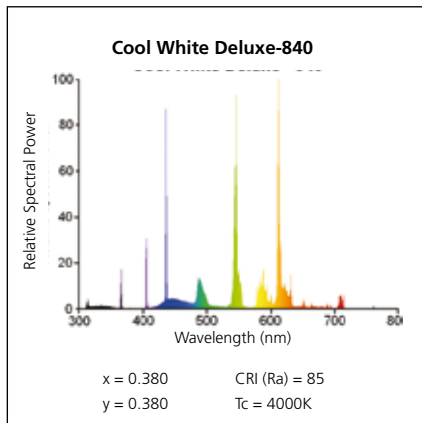
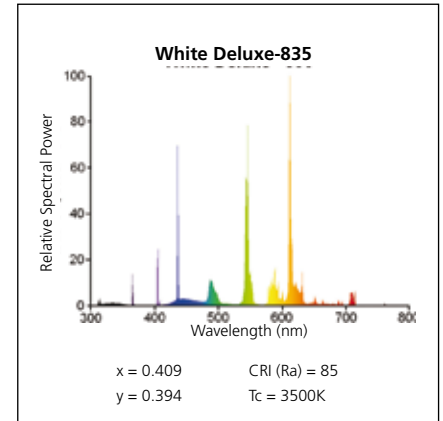
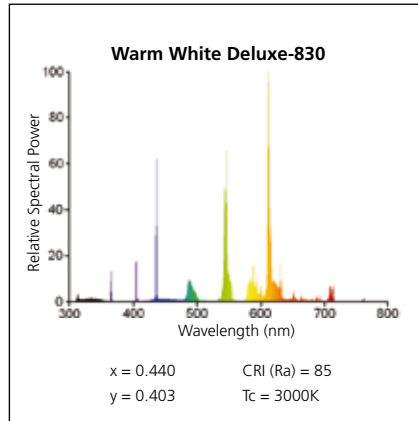
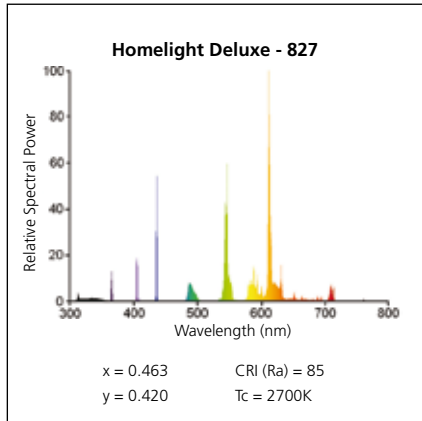


| Lynx-Q | C max. | C1 max. | D max. | D1 max. | E max. | F max. | U max. |
|--------|--------|---------|--------|---------|--------|--------|--------|
| 16W    | 141    | 51      | 15     | 27,5    | 138    | 41     | 40     |
| 28W    | 207    | 77      | 24     | 33,0    | 205    | 41     | 49     |
| 38W    | 207    | 77      | 24     | 33,0    | 205    | 41     | 49     |

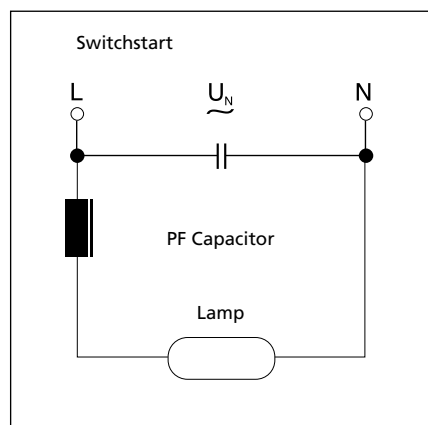
## LYNX® -QE

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

# SPECTRAL POWER DISTRIBUTION

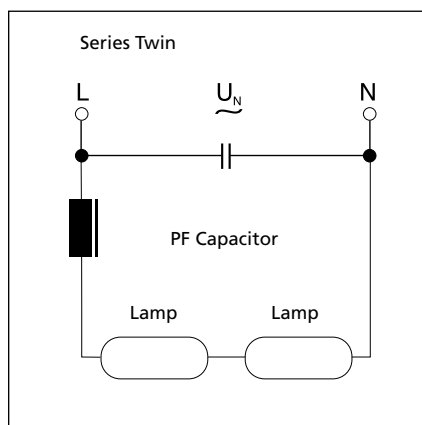


## CIRCUIT DIAGRAMS



### SWITCHSTART

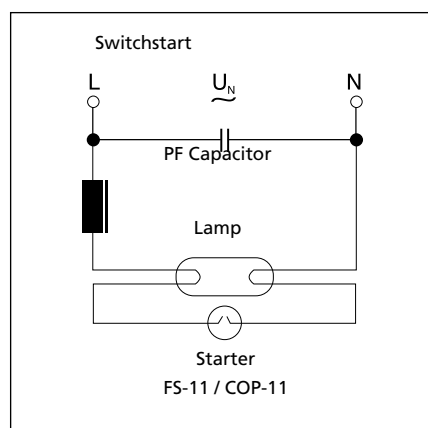
with conventional ballast  
Lynx-S 5W, 7W, 9W, 11W  
Lynx-D 10W, 13W, 18W, 26W  
Lynx-T 18W, 26W



### SERIES TWIN

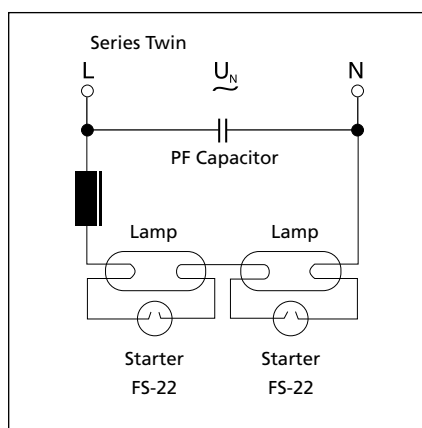
with conventional ballast  
Lynx-S 5W, 7W, 9W

L = External conductor L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub>  
N = Median conductor MP  
 $U_N$  = Power supply 230V  
B = Ballast



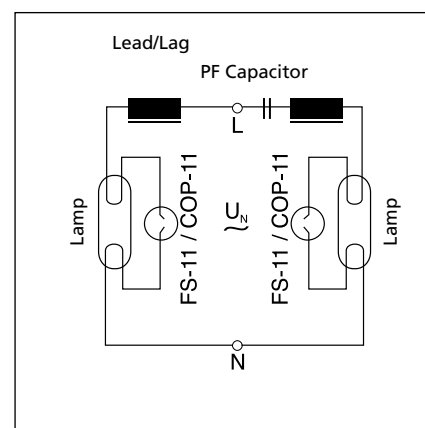
### SWITCHSTART

with conventional ballast and  
FS-11 starter or COP-11 safety starter  
Lynx-L 18W, 24W, 36W



### SERIES TWIN

Series Twin  
with conventional ballast only with  
2 x FS-22 starter  
Lynx-L 18W



### LEAD/LAG

with conventional ballast with  
FS-11 starter or with  
COP-11 safety starter  
Lynx-L 18W, 24W, 36W





## Manufacturer's Lamp Cross Reference

| Sylvania                           | Osram                     | Philips        | GE                     |
|------------------------------------|---------------------------|----------------|------------------------|
| T5 FHE Luxline® Plus               | Lumilux FH                | TL5 HE         | T5 Starcoat HE         |
| T5 FHO Luxline® Plus               | Lumilux FQ                | TL5 HO         | T5 Starcoat HO         |
| T5 Standard                        | Basic T5 TL-Mini Standard | T5 Miniature   | Standard               |
| T5 Luxline® Plus                   | Lumilux T5 TL-Mini Pro 80 | T5 Miniature   | Polylux                |
| T8 Standard                        | Basic T8                  | TL-D Standard  | T8 Standard            |
| T8 Luxline® Plus                   | Lumilux T8                | TL-D Super 80  | T8 Polylux             |
| T8 Luxline® Plus Reflector         | —                         | TL-D Reflex    | —                      |
| T8 Luxline® Plus Shatter-Resistant | Splinter Protection       | TL-D Secura    | T8 Cov-R-Guard Polylux |
| T12 Standard                       | S-Type                    | TL-RS          | T12 Standard           |
| T12 IRS                            | SA-Type                   | TL-M RS T12    | Rapid Start            |
| T12 Reflector                      | —                         | —              | —                      |
| Circline                           | Circular                  | TL-E Standard  | Circline               |
| Activa                             | Biolux                    | —              | —                      |
| Gourmet                            | Natura                    | TL-D Shoplight | —                      |



# FLUORESCENT TUBES



## T5 LAMPS

T5 FHE Luxline® Plus  
T5 FHO Luxline® Plus

118  
119

T5 Standard / Luxline® Plus  
T5 Emergency

**118-121**  
120  
121



## T8 LAMPS

T8 Luxline® Plus  
T8 Special Length Standard  
T8 Luxline® Plus Special Length  
T8 Luxline® Plus Reflector

122  
123  
124  
125

T8 Luxline® Plus Shatter-Resistant  
T8 Coloured

**122-127**  
126  
127



## T12 LAMPS

T12 Standard  
T12 Standard/Luxline® Plus

128  
129

T12 IRS  
T2 Luxline® Slim

**128-131**  
130  
131



## T8 ECO LAMPS

T8 Luxline® Eco

132

**132**



## T8 SUPERCOLOR LAMPS

T8 Luxline® Supercolour

133

**133**



## CIRCULAR LAMPS

T9 Circline Plus  
FS Standard Starters

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Cop safety Starters

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## TECHNICAL DATA

Circuit Diagrams  
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**137-139**  
139



The key benefits of fluorescent tubes are well known – proven energy efficiency, long life and a wide choice of sizes, shapes and colours.

The introduction of improved phosphor coatings, the more efficient T8 tubes and the new generation of T5 tubes have brought significant improvements in lamp efficacy and colour rendering, lumen maintenance and life.

Sylvania engineers have always been at the forefront of these developments, and in caring for the environment, by continually introducing innovative products and improvements in lamp manufacture, technology and performance.

Sylvania offers a comprehensive range of high efficiency fluorescent tubes in various lengths, diameters, wattages and colours, including tubes for specialist applications.

The improved technology of the Luxline® Plus triphosphor coating guarantees excellent colour rendering, high luminous flux and high lamp efficacy (lumen per watt). The average life of up to 24000 hours allows longer replacement intervals which has a positive impact to your on maintenance costs.

All of these advantages meaning that Sylvania Luxline Plus triphosphor tubes and Supercolour multi-phosphor tubes should always be the first choice for all new installations, particularly when used in fixtures incorporating electronic control gear, and be used in place of T12 and T8 halophosphor tubes when re-lamping.





#### **T5 LUXLINE PLUS HE/HO LAMPS:**

A range of narrow diameter fluorescent lamps for use in narrow profile modern T5 fixtures. Incorporating Sylvania Luxline Plus triphosphor technology they achieve high colour rendering together with long life and extremely high energy efficiencies, meaning great quality light with low cost to the user and the environment.



#### **T8 LUXLINE PLUS:**

A range of T8 fluorescent lamps for use with general lighting applications. Incorporating Sylvania Luxline Plus triphosphor technology 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.



#### **T12 STANDARD / LUXLINE PLUS:**

A range of T12 fluorescent lamps for use with older T12 fixtures in general lighting applications. Luxline Plus types incorporating Sylvania Luxline Plus triphosphor technology to achieve high colour rendering together with long life and high energy efficiencies, meaning more, better quality light light for longer with no additional energy cost.



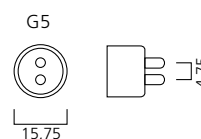
#### **T9 CIRCLINE PLUS:**

A range of T9 Circular fluorescent lamps for use with older T9 fixtures in general lighting applications. Incorporating Sylvania Circline Plus triphosphor technology they achieve high colour rendering together with long life and high energy efficiencies, meaning more, better quality light light for longer with no additional energy cost.

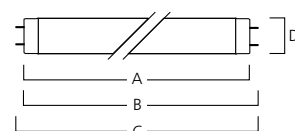
## T5 FHE Luxline® Plus



- T5 FHE Luxline Plus triphosphor lamp ideal solution for new, slim, aesthetic luminaires
- Average life time of 24,000 hours with pre-heating ballast
- High luminous efficacy of up to 104 lm/W.
- Energy savings of up to 25% compared to a T8 tube
- 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



|     | A    | B      | B      | C      | D   |
|-----|------|--------|--------|--------|-----|
|     | 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  |



## T5 FHE LUXLINE® PLUS

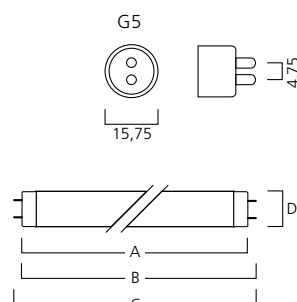
| Code                                                | Description | Nominal Lamp<br>Watt | Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous Flux<br>Nominal at 25° | Flux Max<br>34-38° | Packing<br>Qty. |
|-----------------------------------------------------|-------------|----------------------|------|-------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

## T5 FHO Luxline® Plus



- The T5 FHO Luxline Plus triphosphor lamp is the ideal solution for indirect and direct lighting, i.e. industrial lighting systems with high ceilings
- Average life time of 24,000 hours with pre-heating ballast
- For applications where a high luminous flux is required (up to 7000 lm per lamp)
- High colour rendering (Ra85/Class 1B)
- For electronic ballast operation only
- Optimum luminous flux at an ambient temperature of approx 35°C

|     | A<br>max | B<br>min | B<br>max | C<br>max | D<br>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       |



## T5 FHO LUXLINE® PLUS

| Code                                                | Description | Nominal Lamp<br>Watt Volt Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous Flux<br>Nominal at 25° | Flux Max<br>34-38° | Packing<br>Qty. |
|-----------------------------------------------------|-------------|-----------------------------------|---------------------------|--------------|-----|-------------------------|---------------------------------|--------------------|-----------------|
| <b>T5 FHO Luxline Plus Home light De Luxe (827)</b> |             |                                   |                           |              |     |                         |                                 |                    |                 |
| 0002802                                             | FHO 24W/827 | 24W 77V 0.295A                    | 549mm                     | 1B           | G5  | 2700K                   | 1700 lm                         | 2000 lm            | 25              |
| 0002803                                             | FHO 39W/827 | 39W 118V 0.325A                   | 849mm                     | 1B           | G5  | 2700K                   | 3220 lm                         | 3500 lm            | 25              |
| 0002805                                             | FHO 54W/827 | 54W 120V 0.455A                   | 1149mm                    | 1B           | G5  | 2700K                   | 4450 lm                         | 5000 lm            | 25              |
| 0002804                                             | FHO 49W/827 | 49W 195V 0.255A                   | 1449mm                    | 1B           | G5  | 2700K                   | 4165 lm                         | 4900 lm            | 25              |
| 0002806                                             | FHO 80W/827 | 80W 152V 0.530A                   | 1449mm                    | 1B           | G5  | 2700K                   | 6150 lm                         | 7000 lm            | 25              |
| <b>T5 FHO Luxline Plus Warm White De Luxe (830)</b> |             |                                   |                           |              |     |                         |                                 |                    |                 |
| 0002772                                             | FHO 24W/830 | 24W 77V 0.295A                    | 549mm                     | 1B           | G5  | 3000K                   | 1700 lm                         | 2000 lm            | 25              |
| 0002775                                             | FHO 39W/830 | 39W 118V 0.325A                   | 849mm                     | 1B           | G5  | 3000K                   | 3220 lm                         | 3500 lm            | 25              |
| 0002781                                             | FHO 54W/830 | 54W 120V 0.455A                   | 1149mm                    | 1B           | G5  | 3000K                   | 4450 lm                         | 5000 lm            | 25              |
| 0002778                                             | FHO 49W/830 | 49W 195V 0.255A                   | 1449mm                    | 1B           | G5  | 3000K                   | 4165 lm                         | 4900 lm            | 25              |
| 0002784                                             | FHO 80W/830 | 80W 152V 0.530A                   | 1449mm                    | 1B           | G5  | 3000K                   | 6150 lm                         | 7000 lm            | 25              |
| <b>T5 FHO Luxline Plus White De Luxe (835)</b>      |             |                                   |                           |              |     |                         |                                 |                    |                 |
| 0002791                                             | FHO 24W/835 | 24W 77V 0.295A                    | 549mm                     | 1B           | G5  | 3500K                   | 1700 lm                         | 2000 lm            | 25              |
| 0002792                                             | FHO 39W/835 | 39W 118V 0.325A                   | 849mm                     | 1B           | G5  | 3500K                   | 3220 lm                         | 3500 lm            | 25              |
| 0002794                                             | FHO 54W/835 | 54W 120V 0.455A                   | 1149mm                    | 1B           | G5  | 3500K                   | 4450 lm                         | 5000 lm            | 25              |
| 0002793                                             | FHO 49W/835 | 49W 195V 0.255A                   | 1449mm                    | 1B           | G5  | 3500K                   | 4165 lm                         | 4900 lm            | 25              |
| <b>T5 FHO Luxline Plus Cool White De Luxe (840)</b> |             |                                   |                           |              |     |                         |                                 |                    |                 |
| 0002773                                             | FHO 24W/840 | 24W 77V 0.295A                    | 549mm                     | 1B           | G5  | 4000K                   | 1700 lm                         | 2000 lm            | 25              |
| 0002776                                             | FHO 39W/840 | 39W 118V 0.325A                   | 849mm                     | 1B           | G5  | 4000K                   | 3220 lm                         | 3500 lm            | 25              |
| 0002782                                             | FHO 54W/840 | 54W 120V 0.455A                   | 1149mm                    | 1B           | G5  | 4000K                   | 4450 lm                         | 5000 lm            | 25              |
| 0002777                                             | FHO 49W/840 | 49W 195V 0.255A                   | 1449mm                    | 1B           | G5  | 4000K                   | 4165 lm                         | 4900 lm            | 25              |
| 0002785                                             | FHO 80W/840 | 80W 152V 0.530A                   | 1449mm                    | 1B           | G5  | 4000K                   | 6150 lm                         | 7000 lm            | 25              |
| <b>T5 FHO Luxline Plus Daylight De Luxe (865)</b>   |             |                                   |                           |              |     |                         |                                 |                    |                 |
| 0002774                                             | FHO 24W/865 | 24W 77V 0.295A                    | 549mm                     | 1B           | G5  | 6500K                   | 1570 lm                         | 1850 lm            | 25              |
| 0002779                                             | FHO 39W/865 | 39W 118V 0.325A                   | 849mm                     | 1B           | G5  | 6500K                   | 2990 lm                         | 3250 lm            | 25              |
| 0002783                                             | FHO 54W/865 | 54W 120V 0.455A                   | 1149mm                    | 1B           | G5  | 6500K                   | 4050 lm                         | 4550 lm            | 25              |
| 0002780                                             | FHO 49W/865 | 49W 195V 0.255A                   | 1449mm                    | 1B           | G5  | 6500K                   | 3950 lm                         | 4650 lm            | 25              |
| 0002786                                             | FHO 80W/865 | 80W 152V 0.530A                   | 1449mm                    | 1B           | G5  | 6500K                   | 5700 lm                         | 6650 lm            | 25              |

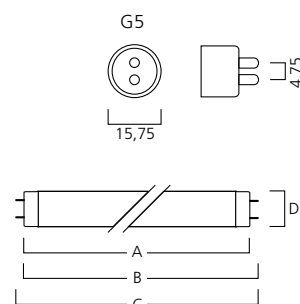
## T5

### Standard / Luxline® Plus



- 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)

|     | A     | B     | B     | C     | D   |
|-----|-------|-------|-------|-------|-----|
|     | max   | min   | max   | max   | 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  |



## T5 STANDARD LUXLINE® PLUS

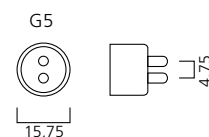
| Code                                            | Description | Watt | Nominal Lamp Volt | Current | Cap to Cap Lamp Length | CRI Group | Cap | Luminous Colour Temp | Luminous Flux | Packing Qty. |
|-------------------------------------------------|-------------|------|-------------------|---------|------------------------|-----------|-----|----------------------|---------------|--------------|
| <b>T5 Standard Warm White (29-530)</b>          |             |      |                   |         |                        |           |     |                      |               |              |
| 0000014                                         | F6W/29-530  | 6W   | 42V               | 0.160A  | 212mm                  | 3         | G5  | 3000K                | 280 lm        | 25           |
| 0000382                                         | F8W/29-530  | 8W   | 56V               | 0.145A  | 288mm                  | 3         | G5  | 3000K                | 400 lm        | 25           |
| 0000032                                         | F13W/29-530 | 13W  | 95V               | 0.165A  | 517mm                  | 3         | G5  | 3000K                | 880 lm        | 25           |
| <b>T5 Standard White (35-535)</b>               |             |      |                   |         |                        |           |     |                      |               |              |
| 0000002                                         | F4W/35-535  | 4W   | 29V               | 0.170A  | 136mm                  | 3         | G5  | 3500K                | 140 lm        | 25           |
| 0000012                                         | F6W/35-535  | 6W   | 42V               | 0.160A  | 212mm                  | 3         | G5  | 3500K                | 280 lm        | 25           |
| 0000020                                         | F8W/35-535  | 8W   | 56V               | 0.145A  | 288mm                  | 3         | G5  | 3500K                | 400 lm        | 25           |
| 0000030                                         | F13W/35-535 | 13W  | 95V               | 0.165A  | 517mm                  | 3         | G5  | 3500K                | 880 lm        | 25           |
| <b>T5 Standard Cool White (33-640)</b>          |             |      |                   |         |                        |           |     |                      |               |              |
| 0000003                                         | F4W/33-640  | 4W   | 29V               | 0.170A  | 136mm                  | 2B        | G5  | 4000K                | 140 lm        | 25           |
| 0000013                                         | F6W/33-640  | 6W   | 42V               | 0.160A  | 212mm                  | 2B        | G5  | 4000K                | 280 lm        | 25           |
| 0000021                                         | F8W/33-640  | 8W   | 56V               | 0.145A  | 288mm                  | 2B        | G5  | 4000K                | 400 lm        | 25           |
| 0000031                                         | F13W/33-640 | 13W  | 95V               | 0.165A  | 517mm                  | 2B        | G5  | 4000K                | 880 lm        | 25           |
| <b>T5 Standard Daylight (54-765)</b>            |             |      |                   |         |                        |           |     |                      |               |              |
| 0000001                                         | F4W/54-765  | 4W   | 29V               | 0.170A  | 136mm                  | 2A        | G5  | 6500K                | 115 lm        | 25           |
| 0000011                                         | F6W/54-765  | 6W   | 42V               | 0.160A  | 212mm                  | 2A        | G5  | 6500K                | 240 lm        | 25           |
| 0000019                                         | F8W/54-765  | 8W   | 56V               | 0.145A  | 288mm                  | 2A        | G5  | 6500K                | 340 lm        | 25           |
| 0000029                                         | F13W/54-765 | 13W  | 95V               | 0.165A  | 517mm                  | 2A        | G5  | 6500K                | 750 lm        | 25           |
| <b>T5 Luxline Plus Cool White De Luxe (840)</b> |             |      |                   |         |                        |           |     |                      |               |              |
| 0005941                                         | F6W-840     | 6W   | 42V               | 0.160A  | 212mm                  | 1B        | G5  | 4000K                | 320 lm        | 200          |
| 0005938                                         | F8W-840     | 8W   | 56V               | 0.145A  | 288mm                  | 1B        | G5  | 4000K                | 500 lm        | 200          |

## T5 EMERGENCY

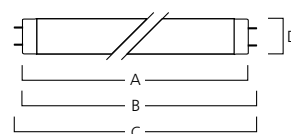
### Standard / Luxline® Plus



- 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



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



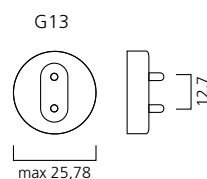
## T5 EMERGENCY

| Code                                                      | Description | Watt | Nominal<br>Lamp Volt | Single Lamp<br>Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|-----------------------------------------------------------|-------------|------|----------------------|------------------------|---------------------------|--------------|-----|-------------------------|------------------|-----------------|
| <b>T5 Emergency Warm White (29-530)</b>                   |             |      |                      |                        |                           |              |     |                         |                  |                 |
| 0001901                                                   | F6W/29-530  | 6W   | 48V                  | 0.040A                 | 212mm                     | 3            | G5  | 3000K                   | –                | 200             |
| <b>T5 Emergency Cool White (33-640)</b>                   |             |      |                      |                        |                           |              |     |                         |                  |                 |
| 0001900                                                   | F6W/33-640  | 6W   | 48V                  | 0.040A                 | 212mm                     | 2B           | G5  | 4000K                   | –                | 200             |
| 0001905                                                   | F8W/33-640  | 8W   | 71V                  | 0.040A                 | 288mm                     | 2B           | G5  | 4000K                   | –                | 200             |
| <b>T5 Emergency Daylight (54-765)</b>                     |             |      |                      |                        |                           |              |     |                         |                  |                 |
| 0001902                                                   | F6W/54-765  | 6W   | 48V                  | 0.040A                 | 212mm                     | 2A           | G5  | 6500K                   | –                | 200             |
| 0001908                                                   | F8W/54-765  | 8W   | 71V                  | 0.040A                 | 288mm                     | 2A           | G5  | 6500K                   | –                | 200             |
| <b>T5 Emergency Cool White De Luxe (840) Luxline Plus</b> |             |      |                      |                        |                           |              |     |                         |                  |                 |
| 0001909                                                   | F6W/840     | 6W   | 48V                  | 0.040A                 | 212mm                     | 1B           | G5  | 4000K                   | –                | 200             |
| 0001907                                                   | F8W/840     | 8W   | 71V                  | 0.040A                 | 288mm                     | 1B           | G5  | 4000K                   | –                | 200             |

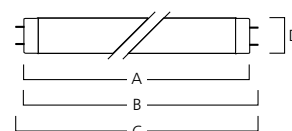
## T8 Luxline® Plus



- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 20000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces



|     | A      | B      | B      | C      | D   |
|-----|--------|--------|--------|--------|-----|
|     | max    | min    | max    | max    | 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  |



## T8 LUXLINE® PLUS

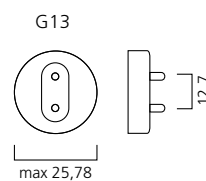
| Code                                            | Description | Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|-------------------------------------------------|-------------|------|----------------------|---------|---------------------------|-------------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

# T8

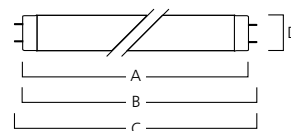
## Special Length Standard



- Standard T8 fluorescent lamps with a wide range of special wattages in standard colours
- Colour rendering: Ra50-79/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.



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



## T8 SPECIAL LENGTH STANDARD

| Code                                              | Description    | Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|---------------------------------------------------|----------------|------|----------------------|---------|---------------------------|--------------|-----|-------------------------|------------------|-----------------|
| <b>T8 Special Length Universal White (25-740)</b> |                |      |                      |         |                           |              |     |                         |                  |                 |
| 0001508                                           | F36W/25-740/1M | 36W  | 80V                  | 0.560A  | 970mm                     | 2A           | G13 | 4000K                   | 2500 lm          | 25              |
| <b>T8 Special Length Warm White (29-530)</b>      |                |      |                      |         |                           |              |     |                         |                  |                 |
| 0000040                                           | F14W/29-530    | 14W  | 38V                  | 0.395A  | 361mm                     | 3            | G13 | 3000K                   | 700 lm           | 25              |
| <b>T8 Special Length Cool White (33-640)</b>      |                |      |                      |         |                           |              |     |                         |                  |                 |
| 0000039                                           | F14W/33-640    | 14W  | 38V                  | 0.395A  | 361mm                     | 2B           | G13 | 4000K                   | 700 lm           | 25              |
| <b>T8 Special Length Daylight (54-765)</b>        |                |      |                      |         |                           |              |     |                         |                  |                 |
| 0000037                                           | F14W/54-765    | 14W  | 38V                  | 0.395A  | 361mm                     | 2A           | G13 | 6500K                   | 650 lm           | 25              |

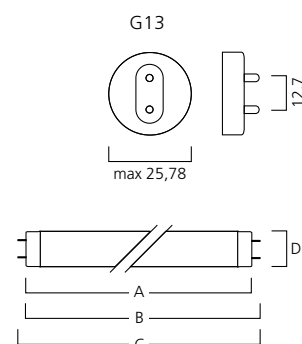


## T8 Luxline® Plus Special Length



- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 20000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts

|         | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|---------|----------|----------|----------|----------|----------|
| 15W     | 437.4    | 442.1    | 444.5    | 451.6    | 26       |
| 16W     | 720.0,   | 724.7,   | 727.1,   | 734.2,   | 26       |
| 25W 28" | 691.4,   | 696.1,   | 698.5,   | 705.6,   | 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 LUXLINE® PLUS SPECIAL LENGTH

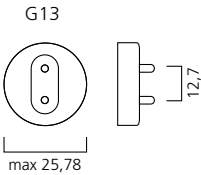
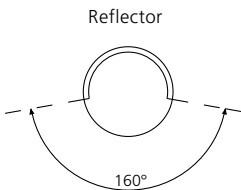
| Code                                                           | Description  | Nominal<br>Watt | Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|----------------------------------------------------------------|--------------|-----------------|-----------|---------|---------------------------|--------------|-----|-------------------------|------------------|-----------------|
| <b>T8 Luxline Plus Special Length Homelight De Luxe (827)</b>  |              |                 |           |         |                           |              |     |                         |                  |                 |
| 0001850                                                        | F15W/827     | 15W             | 55V       | 0.310A  | 438mm                     | 1B           | G13 | 2700K                   | 950 lm           | 25              |
| 0001680                                                        | F30W/827     | 30W             | 96V       | 0.365A  | 895mm                     | 1B           | G13 | 2700K                   | 2400 lm          | 25              |
| <b>T8 Luxline Plus Special Length Warm White De Luxe (830)</b> |              |                 |           |         |                           |              |     |                         |                  |                 |
| 0001853                                                        | F15W/830     | 15W             | 55V       | 0.310A  | 438mm                     | 1B           | G13 | 3000K                   | 950 lm           | 25              |
| 0000870                                                        | F16W/830     | 16W             | 95V       | 0.200A  | 720mm                     | 1B           | G13 | 3000K                   | 1200 lm          | 25              |
| 0000876                                                        | F25W/30"/830 | 25W             | 84V       | 0.360A  | 742mm/30"                 | 1B           | G13 | 3000K                   | 2200 lm          | 25              |
| 0001079                                                        | F30W/830     | 30W             | 96V       | 0.365A  | 895mm                     | 1B           | G13 | 3000K                   | 2400 lm          | 25              |
| 0001521                                                        | F38W/830     | 38W             | 104V      | 0.430A  | 1047mm                    | 1B           | G13 | 3000K                   | 3200 lm          | 25              |
| <b>T8 Luxline Plus Special Length White De Luxe (835)</b>      |              |                 |           |         |                           |              |     |                         |                  |                 |
| 0000566                                                        | F15W/835     | 15W             | 55V       | 0.310A  | 438mm                     | 1B           | G13 | 3500K                   | 950 lm           | 25              |
| 0000872                                                        | F16W/835     | 16W             | 95V       | 0.200A  | 720mm                     | 1B           | G13 | 3500K                   | 1200 lm          | 25              |
| 0001077                                                        | F30W/835     | 30W             | 96V       | 0.365A  | 895mm                     | 1B           | G13 | 3500K                   | 2400 lm          | 25              |
| <b>T8 Luxline Plus Special Length Cool White De Luxe (840)</b> |              |                 |           |         |                           |              |     |                         |                  |                 |
| 0000567                                                        | F15W/840     | 15W             | 55V       | 0.310A  | 438mm                     | 1B           | G13 | 4000K                   | 950 lm           | 25              |
| 0000871                                                        | F16W/840     | 16W             | 95V       | 0.200A  | 720mm                     | 1B           | G13 | 4000K                   | 1200 lm          | 25              |
| 0000874                                                        | F25W/28"/840 | 25W             | 80V       | 0.380A  | 691mm/28"                 | 1B           | G13 | 4000K                   | 2000 lm          | 25              |
| 0000877                                                        | F25W/30"/840 | 25W             | 84V       | 0.360A  | 742mm/30"                 | 1B           | G13 | 4000K                   | 2200 lm          | 25              |
| 0000878                                                        | F25W/33"/840 | 25W             | 90V       | 0.340A  | 818mm/33"                 | 1B           | G13 | 4000K                   | 2300 lm          | 25              |
| 0001080                                                        | F30W/840     | 30W             | 96V       | 0.365A  | 895mm                     | 1B           | G13 | 4000K                   | 2400 lm          | 25              |
| 0001504                                                        | F36W/1M/840  | 36W             | 80V       | 0.560A  | 970mm                     | 1B           | G13 | 4000K                   | 3200 lm          | 25              |
| 0001520                                                        | F38W/840     | 38W             | 104V      | 0.430A  | 1047mm                    | 1B           | G13 | 4000K                   | 3200 lm          | 25              |
| <b>T8 Luxline Plus Special Length Daylight Deluxe (865)</b>    |              |                 |           |         |                           |              |     |                         |                  |                 |
| 0000947                                                        | F15W/865     | 15W             | 55V       | 0.310A  | 438mm                     | 1B           | G13 | 6500K                   | 900 lm           | 25              |
| 0000875                                                        | F25W/28"/865 | 25W             | 80V       | 0.380A  | 691mm/28"                 | 1B           | G13 | 6500K                   | 1800 lm          | 25              |
| 0000879                                                        | F25W/33"/865 | 25W             | 90V       | 0.340A  | 818mm/33"                 | 1B           | G13 | 6500K                   | 2100 lm          | 25              |
| 0001078                                                        | F30W/865     | 30W             | 96V       | 0.365A  | 895mm                     | 1B           | G13 | 6500K                   | 2300 lm          | 25              |

# T8

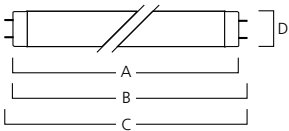
## Luxline® Plus Reflector



- 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)



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



## T8 LUXLINE® PLUS REFLECTOR

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

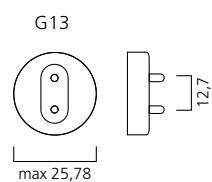


## T8

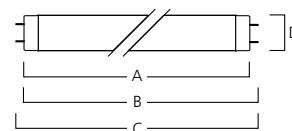
### Luxline® Plus Shatter-Resistant



- Fluorescent lamp with a transparent VPE plastic sleeve
- Protection against glass splinters and other lamp parts
- Absorbs UV radiation below 380nm
- Maximum 5% decrease in light output compared to a standard lamp
- Colour temperature and colour rendering not affected
- Average rated life 10,000 hours
- This lamp should not be used in enclosed (IP65) fittings



|     | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|-----|----------|----------|----------|----------|----------|
| 36W | 970.0    | 974.7    | 977.1    | 984.2    | 26       |
| 58W | 1500.0   | 1504.7   | 1507.1   | 1514.2   | 26       |



### T8 LUXLINE® PLUS SHATTER-RESISTANT

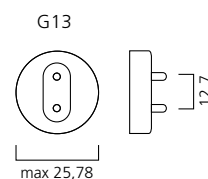
| Code                                     | Description                | Nominal<br>Watt | Lamp Volt | Current | Lamp<br>Colour    | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|------------------------------------------|----------------------------|-----------------|-----------|---------|-------------------|--------------|-----|-------------------------|------------------|-----------------|
| <b>T8 LuxLine Plus Shatter-Resistant</b> |                            |                 |           |         |                   |              |     |                         |                  |                 |
| <b>0001517</b>                           | F36W/840 Shatter-Resistant | 36W             | 103V      | 0.430A  | Cool White Deluxe | 1B           | G13 | 4000K                   | 3180 lm          | 25              |
| <b>0001528</b>                           | F58W/840 Shatter-Resistant | 58W             | 110V      | 0.670A  | Cool White Deluxe | 1B           | G13 | 4000K                   | 4940 lm          | 25              |



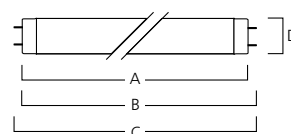
## T8 Coloured



- 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



|     | A<br>max | B<br>min | B<br>max | C<br>max | D<br>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       |



## T8 COLOURED

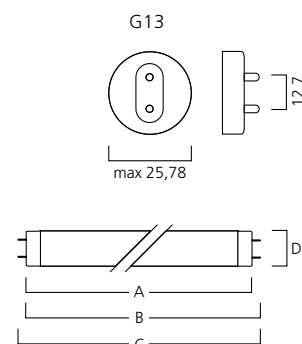
| Code               | Description | Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Length | Lamp<br>Colour | Cap | Luminous<br>Flux | Packing<br>Qty. |
|--------------------|-------------|------|----------------------|---------|----------------------|----------------|-----|------------------|-----------------|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

## T12 Standard



- 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

|        | A<br>max | B<br>min | B<br>max | C<br>max | D<br>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       |
| 100W   | 2374.3   | 2379.0   | 2381.4   | 2388.5   | 38       |
| 125W   | 2374.3   | 2379.0   | 2381.4   | 2388.5   | 38       |



### T12 STANDARD

| Code                                         | Description       | Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|----------------------------------------------|-------------------|------|----------------------|---------|---------------------------|--------------|-----|-------------------------|------------------|-----------------|
| <b>T12 Standard Universal White (25-740)</b> |                   |      |                      |         |                           |              |     |                         |                  |                 |
| 0001552                                      | F20W/25-740 RS    | 20W  | 57V                  | 0.370A  | 590mm                     | 2A           | G13 | 4000K                   | 1050 lm          | 25              |
| 0000403                                      | F40W/1M/25-740 RS | 40W  | 81V                  | 0.556A  | 970mm                     | 2A           | G13 | 4000K                   | 2400 lm          | 25              |
| 0001555                                      | F40W/25-740 RS    | 40W  | 103V                 | 0.430A  | 1200mm                    | 2A           | G13 | 4000K                   | 2500 lm          | 25              |
| 0001558                                      | F65W/25-740 RS    | 65W  | 110V                 | 0.670A  | 1500mm                    | 2A           | G13 | 4000K                   | 4000 lm          | 25              |
| <b>T12 Standard Warm White (29-530)</b>      |                   |      |                      |         |                           |              |     |                         |                  |                 |
| 0001551                                      | F20W/29-530 RS    | 20W  | 57V                  | 0.370A  | 590mm                     | 3            | G13 | 3000K                   | 1200 lm          | 25              |
| 0001554                                      | F40W/29-530 RS    | 40W  | 103V                 | 0.430A  | 1200mm                    | 3            | G13 | 3000K                   | 3000 lm          | 25              |
| 0001557                                      | F65W/29-530       | 65W  | 110V                 | 0.670A  | 1500mm                    | 3            | G13 | 3000K                   | 4800 lm          | 25              |
| 0000446                                      | F65/80W/29-530    | 65W  | 110V                 | 0.670A  | 1500mm                    | 3            | G13 | 3000K                   | 4800 lm          | 25              |
| 0000446                                      | F65/80W/29-530    | 80W  | 99V                  | 0.870A  | 1500mm                    | 3            | G13 | 3000K                   | 5500 lm          | 25              |
| 0001009                                      | F75/85W/29-530    | 75W  | 130V                 | 0.670A  | 1764mm                    | 3            | G13 | 3000K                   | 6000 lm          | 25              |
| 0001009                                      | F75/85W/29-530    | 85W  | 120V                 | 0.800A  | 1764mm                    | 3            | G13 | 3000K                   | 6400 lm          | 25              |
| <b>T12 Standard White (35-535)</b>           |                   |      |                      |         |                           |              |     |                         |                  |                 |
| 0001562                                      | F20W/35-535 RS    | 20W  | 57V                  | 0.370A  | 590mm                     | 3            | G13 | 3500K                   | 1200 lm          | 25              |
| 0001563                                      | F40W/35-535 RS    | 40W  | 103V                 | 0.430A  | 1200mm                    | 3            | G13 | 3500K                   | 3000 lm          | 25              |
| 0000444                                      | F65/80W/35-535 RS | 65W  | 110V                 | 0.670A  | 1500mm                    | 3            | G13 | 3500K                   | 4800 lm          | 25              |
| 0000444                                      | F65/80W/35-535 RS | 80W  | 99V                  | 0.870A  | 1500mm                    | 3            | G13 | 3500K                   | 5500 lm          | 25              |
| 0001008                                      | F75/85W/35-535    | 75W  | 130V                 | 0.670A  | 1764mm                    | 3            | G13 | 3500K                   | 6000 lm          | 25              |
| 0001008                                      | F75/85W/35-535    | 85W  | 120V                 | 0.800A  | 1764mm                    | 3            | G13 | 3500K                   | 6400 lm          | 25              |
| 0001028                                      | F100W/35-535      | 100W | 125V                 | 0.960A  | 2400mm                    | 3            | G13 | 3500K                   | 8200 lm          | 25              |
| 0001038                                      | F125W/35-535      | 125W | 149V                 | 0.940A  | 2400mm                    | 3            | G13 | 3500K                   | 9500 lm          | 25              |

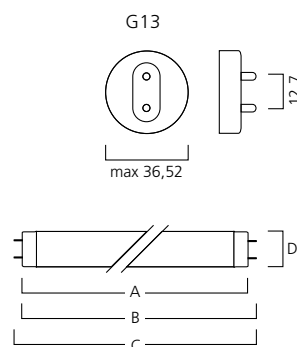
# T12

## Standard / Luxline® Plus



- 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
- 100W and 125W with triphosphor coating with high colour rendering (Ra85/Class 1B)

|        | A      | B      | B      | C      | D   |
|--------|--------|--------|--------|--------|-----|
|        | max    | min    | max    | max    | 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  |
| 100W   | 2374.3 | 2379.0 | 2381.4 | 2388.5 | 38  |
| 125W   | 2374.3 | 2379.0 | 2381.4 | 2388.5 | 38  |



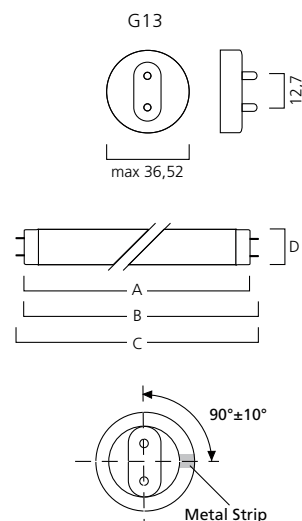
## T12 STANDARD/LUXLINE® PLUS

| Code                                             | Description       | Watt | Nominal Lamp Volt | Current | Cap to Cap Lamp Length | CRI Group | Cap | Luminous Colour Temp | Luminous Flux | Packing Qty. |
|--------------------------------------------------|-------------------|------|-------------------|---------|------------------------|-----------|-----|----------------------|---------------|--------------|
| <b>T12 Standard Cool White (33-640)</b>          |                   |      |                   |         |                        |           |     |                      |               |              |
| 0001550                                          | F20W/33-640 RS    | 20W  | 57V               | 0.370A  | 590mm                  | 2B        | G13 | 4000K                | 1200 lm       | 25           |
| 0000393                                          | F25W/1M/33-640 RS | 25W  | 94V               | 0.290A  | 970mm                  | 2B        | G13 | 4000K                | 1800 lm       | 25           |
| 0000399                                          | F40W/1M/33-640 RS | 40W  | 81V               | 0.556A  | 970mm                  | 2B        | G13 | 4000K                | 2800 lm       | 25           |
| 0001553                                          | F40W/33-640 RS    | 40W  | 103V              | 0.430A  | 1200mm                 | 2B        | G13 | 4000K                | 3000 lm       | 25           |
| 0001556                                          | F65W/33-640 RS    | 65W  | 110V              | 0.670A  | 1500mm                 | 2B        | G13 | 4000K                | 4800 lm       | 25           |
| 0000445                                          | F65/80W/33-640 RS | 65W  | 110V              | 0.670A  | 1500mm                 | 2B        | G13 | 4000K                | 4800 lm       | 25           |
| 0000445                                          | F65/80W/33-640 RS | 80W  | 99V               | 0.870A  | 1500mm                 | 2B        | G13 | 4000K                | 5500 lm       | 25           |
| 0001017                                          | F75/85W/33-640    | 75W  | 130V              | 0.670A  | 1764mm                 | 2B        | G13 | 4000K                | 6000 lm       | 25           |
| 0001017                                          | F75/85W/33-640    | 85W  | 120V              | 0.800A  | 1764mm                 | 2B        | G13 | 4000K                | 6400 lm       | 25           |
| 0001027                                          | F100W/33-640      | 100W | 125V              | 0.960A  | 2400mm                 | 2B        | G13 | 4000K                | 8200 lm       | 25           |
| <b>T12 Standard Daylight (54-765)</b>            |                   |      |                   |         |                        |           |     |                      |               |              |
| 0001559                                          | F20W/54-765 RS    | 20W  | 57V               | 0.370A  | 590mm                  | 2A        | G13 | 6500K                | 1050 lm       | 25           |
| 0000391                                          | F25W/1M/54-765 RS | 25W  | 94V               | 0.290A  | 970mm                  | 2A        | G13 | 6500K                | 1600 lm       | 25           |
| 0000397                                          | F40W/1M/54-765 RS | 40W  | 81V               | 0.556A  | 970mm                  | 2A        | G13 | 6500K                | 2500 lm       | 25           |
| 0001560                                          | F40W/54-765 RS    | 40W  | 103V              | 0.430A  | 1200mm                 | 2A        | G13 | 6500K                | 2500 lm       | 25           |
| 0001561                                          | F65W/54-765 RS    | 65W  | 110V              | 0.670A  | 1500mm                 | 2A        | G13 | 6500K                | 4200 lm       | 25           |
| 0001138                                          | F75/85W/54-765    | 75W  | 130V              | 0.670A  | 1764mm                 | 2A        | G13 | 6500K                | 5000 lm       | 25           |
| 0001138                                          | F75/85W/54-765    | 85W  | 120V              | 0.800A  | 1764mm                 | 2A        | G13 | 6500K                | 5300 lm       | 25           |
| <b>T12 Luxline Plus Cool White De Luxe (840)</b> |                   |      |                   |         |                        |           |     |                      |               |              |
| 0001029                                          | F100W/840         | 100W | 125V              | 1.0A    | 2400mm                 | 1B        | G13 | 4000K                | 9300 lm       | 25           |
| 0001037                                          | F125W/840         | 125W | 145V              | 1.0A    | 2400mm                 | 1B        | G13 | 4000K                | 10500 lm      | 25           |

## T12 IRS



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



|     | A      | B      | B      | C      | D   |
|-----|--------|--------|--------|--------|-----|
|     | max    | min    | max    | max    | 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  |

## T12 IRS

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



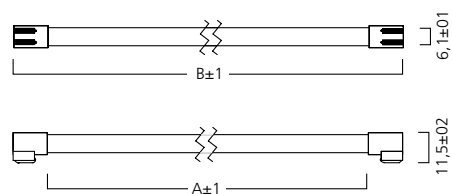
## T2 Luxline® Slim



- Wide range of ultra-slim fluorescent lamps allowing a high degree of design flexibility
- Colour rendering Ra80-89 / class 1B
- Operate on electronic control gear
- Average rated life >8000 hrs

|     | A<br>nom | B<br>nom |
|-----|----------|----------|
| 6W  | 176      | 206      |
| 8W  | 287      | 308      |
| 11W | 378      | 408      |
| 13W | 479      | 509      |
| 21W | 783      | 813      |
| 23W | 883      | 913      |

WP 4.5x8.5 d



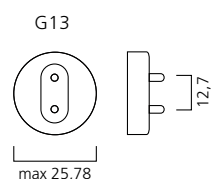
## T2 LUXLINE® SLIM

| Code                                            | Description | Nominal<br>Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap        | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|-------------------------------------------------|-------------|-----------------|----------------------|---------|---------------------------|--------------|------------|-------------------------|------------------|-----------------|
| <b>T2 Luxline Slim Warm White De Luxe (830)</b> |             |                 |                      |         |                           |              |            |                         |                  |                 |
| 0002006                                         | T2 6W/830   | 6W              | 51V                  | 0.100A  | 206mm                     | 1B           | WP4.5x8.5d | 3000K                   | 275 lm           | 20              |
| 0002007                                         | T2 8W/830   | 8W              | 79V                  | 0.100A  | 308mm                     | 1B           | WP4.5x8.5d | 3000K                   | 450 lm           | 20              |
| 0002008                                         | T2 11W/830  | 11W             | 110V                 | 0.100A  | 408mm                     | 1B           | WP4.5x8.5d | 3000K                   | 620 lm           | 20              |
| 0002009                                         | T2 13W/830  | 13W             | 133V                 | 0.100A  | 509mm                     | 1B           | WP4.5x8.5d | 3000K                   | 800 lm           | 20              |
| 0002010                                         | T2 21W/830  | 21W             | 210V                 | 0.100A  | 813mm                     | 1B           | WP4.5x8.5d | 3000K                   | 1300 lm          | 20              |
| 0002011                                         | T2 23W/830  | 23W             | 230V                 | 0.100A  | 913mm                     | 1B           | WP4.5x8.5d | 3000K                   | 1400 lm          | 20              |
| <b>T2 Luxline Slim Cool White De Luxe (840)</b> |             |                 |                      |         |                           |              |            |                         |                  |                 |
| 0002012                                         | T2 6W/840   | 6W              | 51V                  | 0.100A  | 206mm                     | 1B           | WP4.5x8.5d | 4000K                   | 275 lm           | 20              |
| 0002013                                         | T2 8W/840   | 8W              | 79V                  | 0.100A  | 308mm                     | 1B           | WP4.5x8.5d | 4000K                   | 450 lm           | 20              |
| 0002014                                         | T2 11W/840  | 11W             | 110V                 | 0.100A  | 408mm                     | 1B           | WP4.5x8.5d | 4000K                   | 620 lm           | 20              |
| 0002015                                         | T2 13W/840  | 13W             | 133V                 | 0.100A  | 509mm                     | 1B           | WP4.5x8.5d | 4000K                   | 800 lm           | 20              |
| 0002016                                         | T2 21W/840  | 21W             | 210V                 | 0.100A  | 813mm                     | 1B           | WP4.5x8.5d | 4000K                   | 1300 lm          | 20              |
| 0002017                                         | T2 23W/840  | 23W             | 230V                 | 0.100A  | 913mm                     | 1B           | WP4.5x8.5d | 4000K                   | 1400 lm          | 20              |
| <b>T2 Luxline Slim Daylight De Luxe (860)</b>   |             |                 |                      |         |                           |              |            |                         |                  |                 |
| 0002018                                         | T2 6W/860   | 6W              | 51V                  | 0.100A  | 206mm                     | 1B           | WP4.5x8.5d | 6000K                   | 275 lm           | 20              |
| 0002019                                         | T2 8W/860   | 8W              | 79V                  | 0.100A  | 308mm                     | 1B           | WP4.5x8.5d | 6000K                   | 450 lm           | 20              |
| 0002020                                         | T2 11W/860  | 11W             | 110V                 | 0.100A  | 408mm                     | 1B           | WP4.5x8.5d | 6000K                   | 620 lm           | 20              |
| 0002021                                         | T2 13W/860  | 13W             | 133V                 | 0.100A  | 509mm                     | 1B           | WP4.5x8.5d | 6000K                   | 800 lm           | 20              |
| 0002022                                         | T2 21W/860  | 21W             | 210V                 | 0.100A  | 813mm                     | 1B           | WP4.5x8.5d | 6000K                   | 1300 lm          | 20              |
| 0002023                                         | T2 23W/860  | 23W             | 230V                 | 0.100A  | 913mm                     | 1B           | WP4.5x8.5d | 6000K                   | 1400 lm          | 20              |

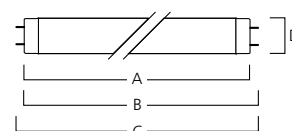
## T8 Luxline® Eco



- T8 fluorescent lamp with high colour rendering and excellent lumen maintenance
- Colour rendering: Ra80-89/Class 1B
- High luminous efficacy
- Average rated life 15000 hours (based on 3hrs burning cycle)
- Operates on conventional and electronic ballasts
- Meets the lighting requirements as specified in the European Standard EN 12464-1 for workplaces
- Intended to replace standard halophosphor T8 lamps offering 10% energy saving with no loss in light output
- Retrofit with standard T8 lamps



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



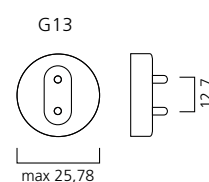
## T8 LUXLINE® Eco

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

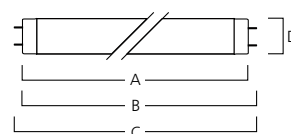
## T8 Luxline® Supercolour



- 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
- Colour rendering Ra90-99 / class 1A



|     | A<br>max | B<br>min | B<br>max | C<br>max | D<br>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       |



## T8 LUXLINE® SUPERCLOUR

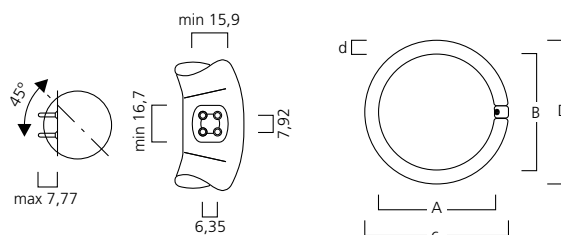
| Code                                                   | Description | Watt | Nominal<br>Lamp Volt | Current | Cap to Cap<br>Lamp Length | CRI<br>Group | Cap | Luminous<br>Colour Temp | Luminous<br>Flux | Packing<br>Qty. |
|--------------------------------------------------------|-------------|------|----------------------|---------|---------------------------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



## T9 Circline Plus



- T9 circular fluorescent lamps
- Suitable in a wide range of round and square shaped luminaires for various purposes
- For commercial and domestic lighting
- Colour rendering Ra80-89 / class 1B
- High luminous efficacy



|     | A     | A     | B     | B     | C or D | C or D | d    | d    |
|-----|-------|-------|-------|-------|--------|--------|------|------|
|     | min   | max   | min   | max   | min    | max    | min  | 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 |

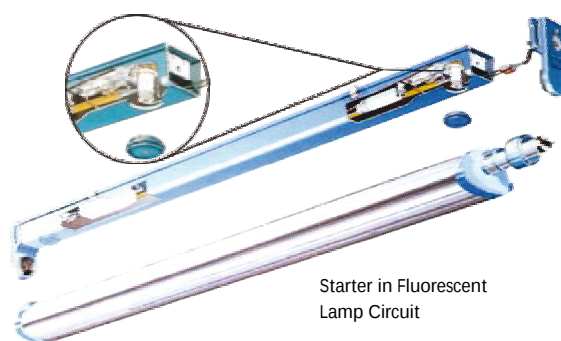
### T9 CIRCLINE PLUS

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

## FS STANDARD STARTERS



- 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 STANDARD STARTERS

| Code                        | Description | Watt                            | Volt     | Lamp Type | Circuit  | Packing Qty     |
|-----------------------------|-------------|---------------------------------|----------|-----------|----------|-----------------|
| <b>FS Standard Starters</b> |             |                                 |          |           |          |                 |
| <b>0024434</b>              | FS-11       | 4, 6, 8, 13W                    | 220-240V | T5        | Single   | 25/500/1000     |
|                             |             | 14, 15, 16, 18, 25, 36, 38, 58W | 220-240V | T8        | Single   |                 |
|                             |             | 20, 40, 65W                     | 220-240V | T12       | Single   |                 |
|                             |             | 22, 32, 40, 60W                 | 220-240V | Circline  | Single   |                 |
|                             |             | 18, 24, 36W                     | 220-240V | CF-L      | Single   |                 |
| <b>0024436</b>              | FS-11       | As Above                        | 220-240V | As Above  | Single   | 500/1000        |
|                             |             |                                 |          |           |          | Industrial Pack |
| <b>0024455</b>              | FS-22       | 4, 6, 8W                        | 120V     | T12       | Single   | 25/500/1000     |
|                             |             |                                 | 4, 6, 8W | 230V      | T12      | Twin            |
|                             |             | 14, 15, 18W                     | 120V     | T8        | Single   |                 |
|                             |             | 14, 15, 18W                     | 230V     | T8        | Twin     |                 |
|                             |             | 20W                             | 120V     | T12       | Single   |                 |
|                             |             | 20W                             | 230V     | T12       | Twin     |                 |
|                             |             | 22W                             | 120V     | Circline  | Single   |                 |
|                             |             | 22W                             | 230V     | Circline  | Twin     |                 |
|                             |             | 18W                             | 120V     | CF-L      | Single   |                 |
|                             |             | 18W                             | 230V     | CF-L      | Twin     |                 |
|                             |             | 18W                             | 120V     | CF-F      | Single   |                 |
|                             |             | 18W                             | 230V     | CF-F      | Twin     |                 |
| <b>0024437</b>              | FS-22       | As Above                        | As Above | As Above  | As Above | 500/1000        |
|                             |             |                                 |          |           |          | Industrial Pack |

## COP SAFETY STARTERS



- 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

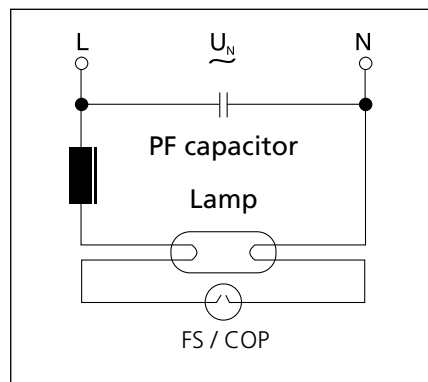
| Code                       | Description | Watt        | Volt     | Lamp Type | Circuit | Packing Qty |
|----------------------------|-------------|-------------|----------|-----------|---------|-------------|
| <b>COP Safety Starters</b> |             |             |          |           |       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



# FLUORESCENT TUBES

## Circuit Diagrams

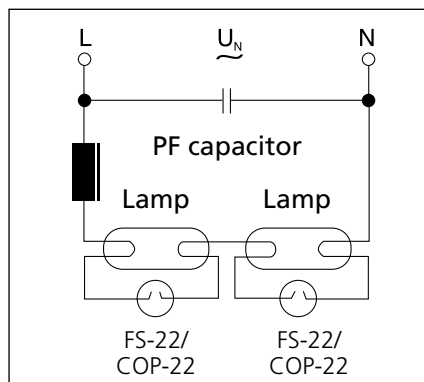
### Switchstart



#### SWITCHSTART

The most common circuit using a ballast and glow starter which effects electrode pre-heating. When the starter contacts open the ballast supplies the starting voltage. Reliable starting is from -5°C to +50°C. Use FS-11 or COP-11 starters.

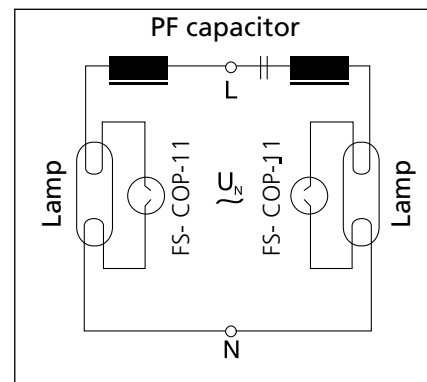
### Series Twin



#### SERIES TWIN

A circuit used for most lamp types up to 20W. Two fluorescent lamps are run in series using one ballast but with individual starters operating as above. Use FS-11 or COP-11 starters.

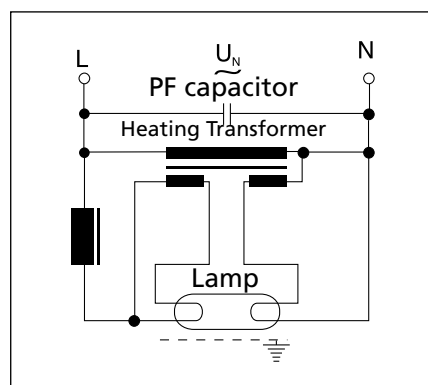
### Lead/Lag



#### LEAD/LAG

A common circuit combination for Twin lamp luminaires, with high power factor and less likelihood of flicker. Use FS-11 or COP-11 starters.

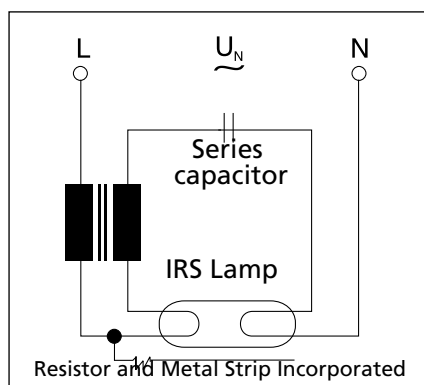
### Rapid-Start



#### RAPID-START

A circuit giving flicker-free instant starting and increased lamp life. The lamp is operated in series with a standard ballast. The electrode pre-heating voltage is provided by a separate transformer. Reliable starting from -10°C to +40°C.

### Semi-Resonant

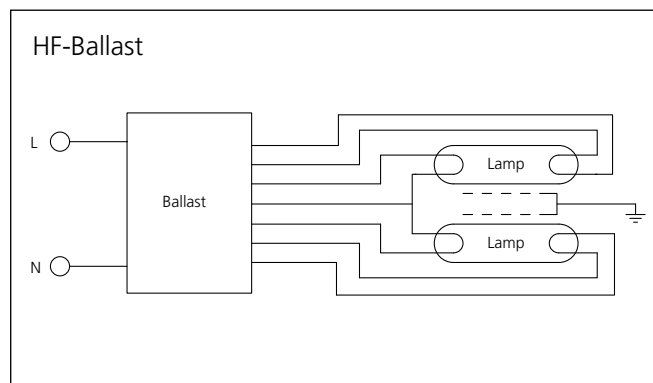


#### SEMI-RESONANT

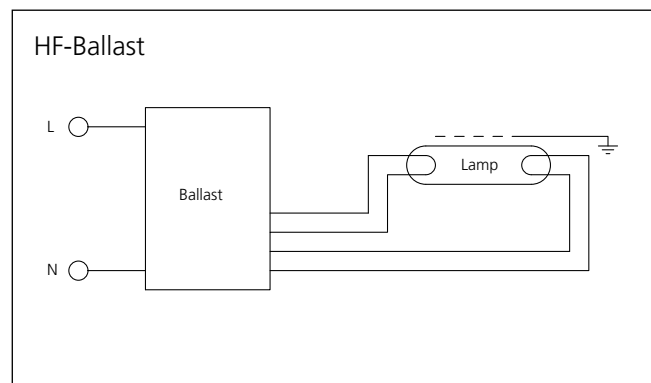
A circuit with flicker-free instant start and electrode pre-heating. An electrical resonance occurs between the secondary winding of the ballast and the capacitor, amplifying the mains voltage for starting the IRS metal stripped lamp.

L = Live conductor  
N = Neutral conductor  
L = external conductor L<sub>1</sub>, L<sub>2</sub>, L<sub>3</sub>  
N = median conductor MP  
UN = power supply 230V  
B = ballast  
PF = power factor capacitor  
KZ = start-up capacitor

### SINGLE LAMP OPERATION

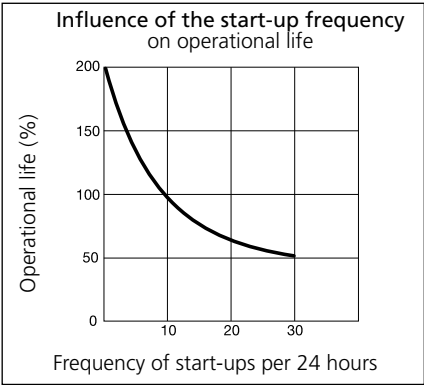
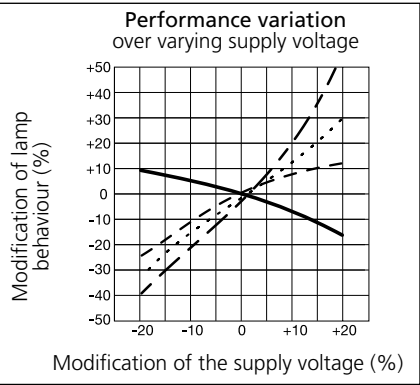


### TWIN LAMP OPERATION



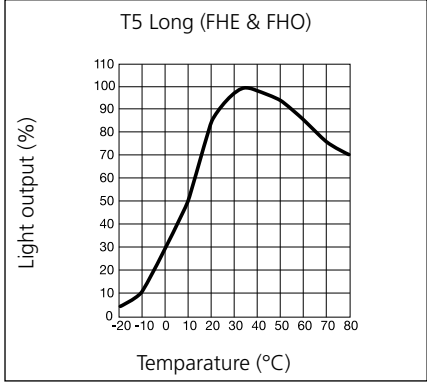
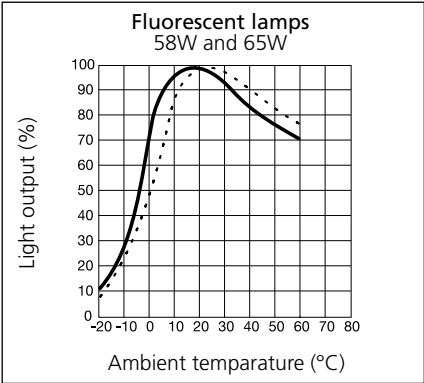
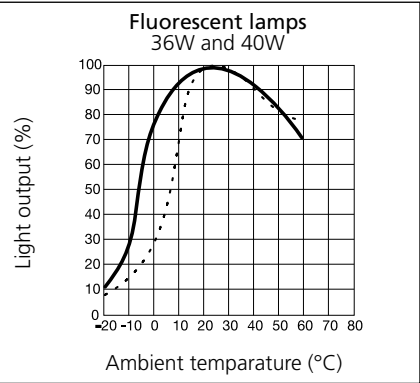
# FLUORESCENT TUBES

## Operating Characteristics



$I_L$  — lamp current  
 $P_L$  ..... lamp conductor  
 $\Phi$  --- light output  
 $U_L$  — lamp voltage

### RELATIONSHIP BETWEEN AMBIENT TEMPERATURE AND LIGHT OUTPUT



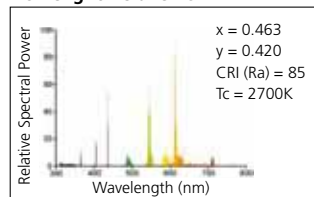
..... F36w  
—— F40W

..... F58w  
—— F65W

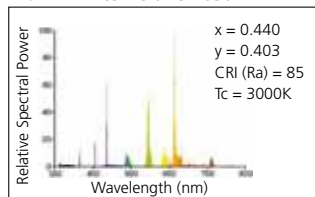
# FLUORESCENT TUBES

## Spectral Power Distribution

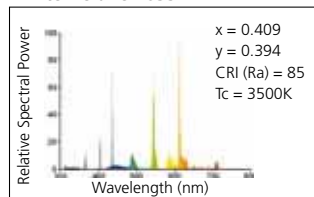
**Homelight Deluxe - 827**



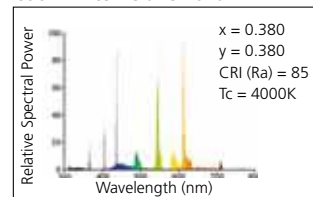
**Warm White Deluxe - 830**



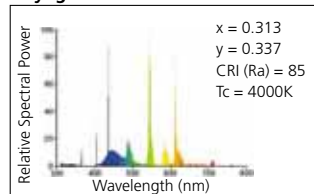
**White Deluxe - 835**



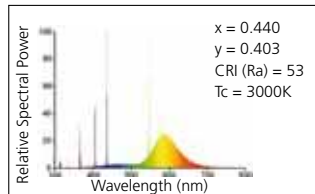
**Cool White Deluxe - 840**



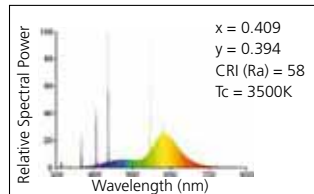
**Daylight Deluxe - 865**



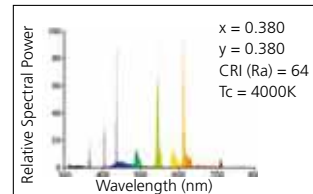
**Warm White 29 - 530**



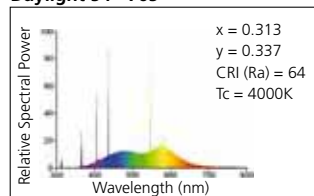
**White 35 - 535**



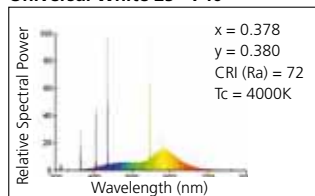
**Cool White 33 - 640**



**Daylight 54 - 765**



**Universal White 25 - 740**

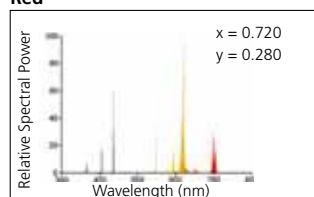


|               | Sylvania | Osram | Philips | GE  |
|---------------|----------|-------|---------|-----|
| Halo-phosphor | 33-640   | 640   | 33-640  | 133 |
|               | 29-530   | 530   | 29-530  | 129 |
|               | 25-740   | 740   | 25-740  | 125 |
|               | 35-535   | 535   | 35-535  | 135 |
|               | 54-765   | 765   | 54-765  | 154 |
| Tri-phosphor  | 840      | 840   | 840     | 840 |
|               | 830      | 830   | 830     | 830 |
|               | 827      | 827   | 827     | 827 |
|               | 835      | 835   | 835     | 835 |
|               | 860      | 860   | 860     | 860 |

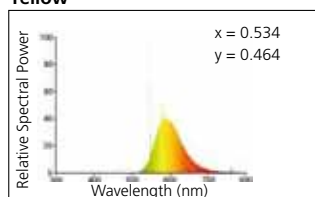
8 means CRI (Ra) > 80  
 colour description  
 27 means  $T_c = 2700K$

33 is a reference to the old  
 name for these lamps '133',  
 no link to technical specifications  
 6 means CRI (Ra) > 60  
 40 means  $T_c = 4000 K$

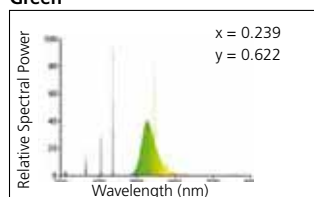
**Red**



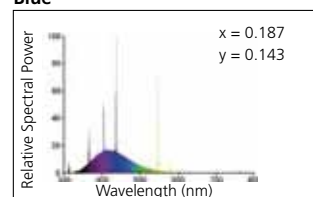
**Yellow**

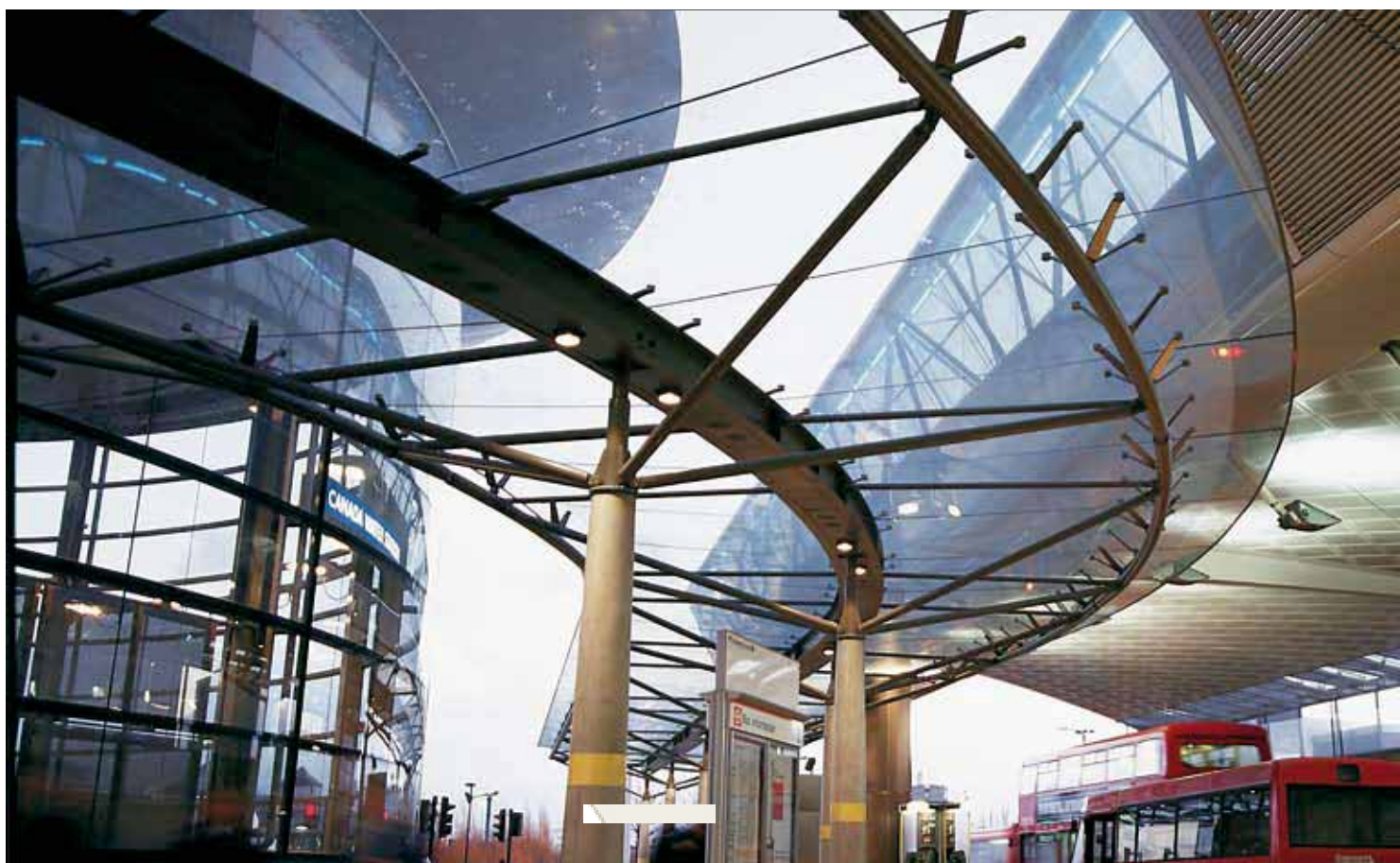


**Green**



**Blue**





## Manufacturer's lamp cross reference

| Sylvania           | Osram      | Philips      | GE                |
|--------------------|------------|--------------|-------------------|
| Superia CMI-T      | HCI-T      | CDM-T Elite  | CMH-T             |
| Superia CMI-TD     | HCI-TS     | CDM-TD Elite | CMH-TD            |
| Superia CMI-TC     | HCI-TC     | CDM-TC Elite | CMH-TC            |
| BriteSpot          | –          | CDM-R Mini   | CMH MR16          |
| HSI-MP MetalArc    | HQI-E      | –            | –                 |
| HSI-TD MetalArc    | HQI-TS     | MHN-TD       | ARC/TD            |
| HSI-T MetalArc     | HQI-T      | –            | ARC/T             |
| HSI-SX BriteLux    | HQI-E/N    | HPI Plus     | ARC/D/H           |
| HSI-TSX BriteLux   | HQI-T/N    | HPI-T Plus   | ARC/T/H           |
| HSI-HX             | HQI-E/N/SI | HPI Plus     | KolorArc          |
| HSI-THX            | HQI-T/N/SI | HPI-T Plus   | –                 |
| HSI-T Daylight     | HQI-T/D    | –            | –                 |
| HSI-T High Wattage | HQI-T/N/SN | HPI-T        | Sportlight MI2000 |

# HID



## LOW WATTAGE METAL HALIDE

144-152

|                             |     |                 |     |
|-----------------------------|-----|-----------------|-----|
| Superia CMI-T/CMI-TD/CMI-TC | 144 | UrbanWhite      | 149 |
| BriteSpot ES50™/ESD50™      | 145 | HSI-MP MetalArc | 150 |
| BriteSpot ESD50™ Coloured   | 146 | HSI-TD MetalArc | 151 |
| BriteSpot ES111™ / ESD111™  | 147 | HSI-T MetalArc  | 152 |
| BriteSpot DE™               | 148 |                 |     |



## MEDIUM WATTAGE METAL HALIDE

153-155

|                           |     |                |     |
|---------------------------|-----|----------------|-----|
| HSI-SX / HSI-TSX BriteLux | 153 | HSI-T Daylight | 155 |
| HSI-HX / HSI-THX          | 154 |                |     |

## HIGH WATTAGE METAL HALIDE

156-157

|       |     |        |     |
|-------|-----|--------|-----|
| HSI-T | 156 | HSI-TD | 157 |
|-------|-----|--------|-----|



## HIGH PRESSURE SODIUM

158-166

|                        |     |                   |     |
|------------------------|-----|-------------------|-----|
| SHP-S / SHP-TS Super   | 158 | SHP-TD Standard   | 163 |
| SHP-TS GroLux          | 159 | SHP Self-Starting | 164 |
| SHP-TS Mercury Free    | 160 | SHX Plug-In       | 165 |
| SHP-S / SHP-TS TwinArc | 161 | SPX EcoArc        | 166 |
| SHP / SHP-T Standard   | 162 |                   |     |



## HIGH PRESSURE MERCURY

167-169

|                              |     |                             |     |
|------------------------------|-----|-----------------------------|-----|
| HSL-SC Super Comfort         | 167 | HSB-BW Bright White Blended | 169 |
| HSL-BW Bright White Standard | 168 |                             |     |

## LOW PRESSURE SODIUM

170

|     |     |
|-----|-----|
| SLP | 170 |
|-----|-----|



## ELECTRONIC CONTROL GEAR

171

|             |     |
|-------------|-----|
| BriteTronic | 171 |
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## TECHNICAL DATA

173-178

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|--------------------------------------------------------------|-----|-----------------------------|-----|
| Circuit Diagrams                                             | 173 | Spectral Power Distribution | 178 |
| Electrical and Photometric Data                              | 174 |                             |     |
| Lamp Performance During Run-Up & the Effect of Mains Voltage |     |                             |     |
| Variations                                                   | 176 |                             |     |

## Manufacturer's lamp cross reference

| Sylvania                     | Osram          | Philips     | GE              |
|------------------------------|----------------|-------------|-----------------|
| HSI-TD High Wattage          | HQI-TS/D/S     | —           | —               |
| SHP Super                    | NAV Super      | SON PLUS    | Lucalox HO      |
| SHP-TS GroLux                | NAV Planta     | SON AGRO    | Lucalox PSL     |
| SHP Mercury Free             | —              | SON Hg FREE | —               |
| SHP TwinArc                  | —              | —           | —               |
| SHP Standard                 | NAV Standard   | SON         | Lucalox         |
| SHP Self-Starting            | NAV/I Standard | SON PRO I   | Lucalox I       |
| SHX Plug-In                  | NAV Plug-In    | SON-H       | Lucalox E-Z Lux |
| SPX EcoArc                   | —              | —           | —               |
| HSL-SC Super Comfort         | HQL De Luxe    | HPL-Comfort | MBF Deluxe      |
| HSL-BW Bright White Standard | HQL            | HPL-N       | MBF             |
| HSB-BW Bright White Blended  | HWL            | ML          | MBTF            |
| SLP                          | SOX            | SOX         | SOX             |

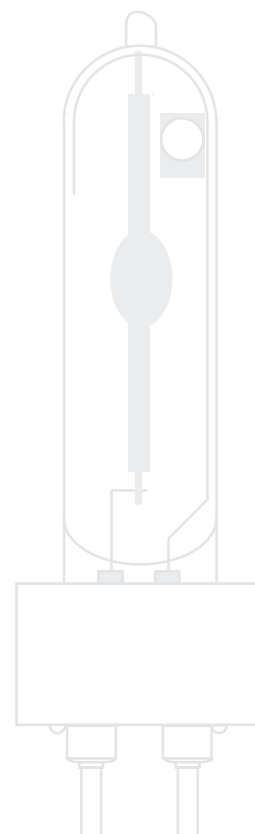


High Intensity Discharge (HID) lighting offers versatility, outstanding performance and reliability, from energy and cost effective lamps. Comprising four major groups – metal halide, high pressure sodium, high pressure mercury and low pressure sodium – HID lamps meet a variety of lighting needs for 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 characterized by its unique one-piece elliptical arc tube. The range is available in Superia CMI-T/TC/TD in 35W, 70W, and 150W in both WDL and NDL colour. Superia CMI lamps offer outstanding efficacy of 100lm/W for 70W and 150W lamps and 95lm/W for 35W lamps. The best in class CRI exceeds 90 for WDL and 96 for NDL. With its excellent lumen maintenance of 80% at 9.000 hours and long life up to 15.000 hours Sylvania has combined best performance and long life in one lamp. Truly unique is the Superia CMI range in its very fast run-up and restart time as well as in keeping stable colour temperature in all burning positions. With its best in class red rendition, Superia CMI performs best in retail and display lighting, shop windows, museums, galleries, lobbies and cultural venues.





#### METAL HALIDE

Combines excellent colour rendering with good efficacy. The low wattage range is available with conventional quartz arc tube technology as well as ceramic and BriteSpot™ arc tube technology enhancing colour uniformity and stability over lamp life. The new BriteSpot™ range represents a revolution in lighting technology. Superia CMI is Sylvania's new generation ceramic metal halide range characterized by its unique one-piece elliptical arc tube. Superia CMI offer outstanding efficacy combined with best in class CRI.



#### HIGH PRESSURE SODIUM

Combines excellent efficacy with extremely long life. The environmental benefits are enhanced by the range of Mercury Free products. The SHP TwinArc lamp uses two arc tubes, to double lamp life, reduce early lamp failures and enable instant restart.

The SHP TwinArc lamp uses two arc tubes, to double the lamp life, reduce early lamp failures and enable instant restart.



#### HIGH PRESSURE MERCURY

Lamps which combine white light, reliability and ease of use together with proven lamp technology.



#### LOW PRESSURE SODIUM

Although still used for many applications, these lamps are increasingly being replaced by high pressure sodium and metal halide lamps. Colour appearance and rendering from these monochromatic lamps are poor, but the luminous efficacy is extremely high.



#### SUPERIA CMI-T

The Superia CMI-T lamps are available in 35W, 70W and 150W in both WDL and NDL colour. The outstanding colour rendition backed by stable colour temperature over life as well as an average life up to 15,000 hours makes Superia CMI one of our signature products. Unique for Superia CMI-T is the convenient wattage marking on the base for easier lamp installation and replacement.



#### SUPERIA CMI-TC

The more compact Superia CMI-TC lamps allow for a more compact fixture and reflector design and therefore for precise light direction. Superia CMI-TC lamps are available in 35W and 70W in WDL colour and also own the benefits of excellent colour rendition, efficacy and long life.



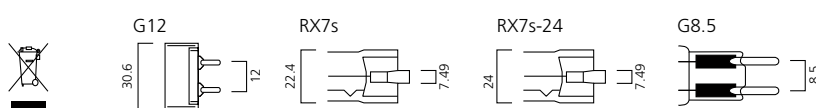
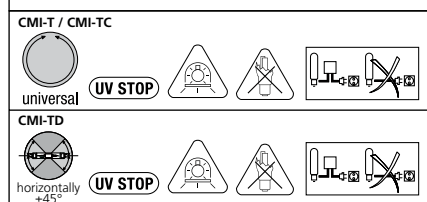
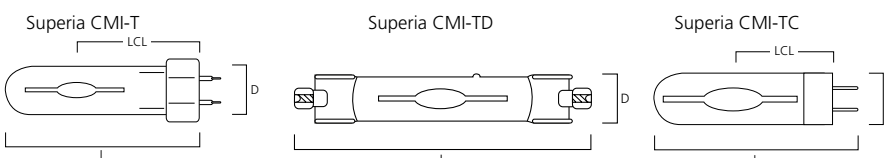
#### SUPERIA CMI-TD

The double ended Superia CMI-TD lamps show improved performance over standard quartz metal halide lamps, such as increased colour stability for both WDL and NDL as well as colour rendering. Superia CMI-TD lamps are available in 70W and 150W.

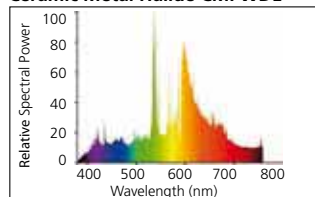
## SUPERIA CMI-T / CMI-TD / CMI-TC



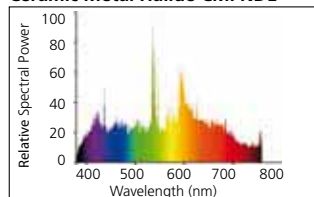
- Unique one-piece elliptical arc tube
- Ceramic arc tube ensures colour uniformity and stability throughout lamp life
- Very high luminous efficiency in a compact lamp format
- Excellent colour rendering
- UV-stop quartz reduces colour fading of merchandise
- For use only in luminaires equipped with a protective cover glass
- Applications in both interior and exterior lighting – shops, hotel lobbies and architectural



Ceramic Metal Halide CMI WDL



Ceramic Metal Halide CMI NDL

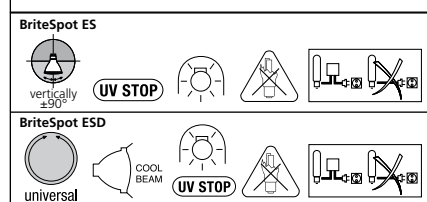


| CMI-T  | 35W | 70W | 150W |
|--------|-----|-----|------|
| D      | 20  | 20  | 20   |
| L      | 90  | 90  | 100  |
| CMI-TD |     | 70W | 150W |
| D      |     | 22  | 25   |
| L      |     | 118 | 135  |
| CMI-TC | 35W | 70W |      |
| D      | 17  | 17  |      |
| L      | 85  | 85  |      |

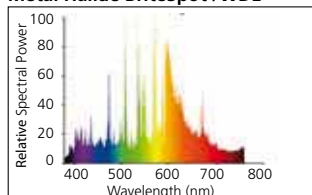
## SUPERIA CMI-T/ CMI-TD / CMI-TC

| Code                  | Description     | Watt | Volt | Current | Lamp Finish | Cap     | Colour Temp | CRI | Luminous Intensity | Packing Qty. |
|-----------------------|-----------------|------|------|---------|-------------|---------|-------------|-----|--------------------|--------------|
| <b>Superia CMI-T</b>  |                 |      |      |         |             |         |             |     |                    |              |
| 0020300               | CMI-T 35W/WDL   | 39W  | 80V  | 0.49A   | Clear       | G12     | 3000K       | 91  | 3700 lm            | 12           |
| 0020301               | CMI-T 70W/WDL   | 70W  | 80V  | 0.88A   | Clear       | G12     | 3000K       | 90  | 6900 lm            | 12           |
| 0020305               | CMI-T 70W/NDL   | 70W  | 80V  | 0.88A   | Clear       | G12     | 4200K       | 96  | 7000 lm            | 12           |
| 0020302               | CMI-T 150W/WDL  | 150W | 80V  | 1.88A   | Clear       | G12     | 3000K       | 90  | 15000 lm           | 12           |
| 0020306               | CMI-T 150W/NDL  | 150W | 80V  | 1.88A   | Clear       | G12     | 4200K       | 96  | 15000 lm           | 12           |
| <b>Superia CMI-TD</b> |                 |      |      |         |             |         |             |     |                    |              |
| 0020307               | CMI-TD 70W/WDL  | 70W  | 80V  | 0.88A   | Clear       | RX7s    | 3000K       | 90  | 6900 lm            | 12           |
| 0020308               | CMI-TD 70W/NDL  | 70W  | 80V  | 0.88A   | Clear       | RX7s    | 4200K       | 96  | 7000 lm            | 12           |
| 0020309               | CMI-TD 150W/WDL | 150W | 80V  | 1.88A   | Clear       | RX7s-24 | 3000K       | 90  | 15000 lm           | 12           |
| 0020310               | CMI-TD 150W/NDL | 150W | 80V  | 1.88A   | Clear       | RX7s-24 | 4200K       | 96  | 15000 lm           | 12           |
| <b>Superia CMI-TC</b> |                 |      |      |         |             |         |             |     |                    |              |
| 0020303               | CMI-TC 35W/WDL  | 39W  | 80V  | 0.49A   | Clear       | G8.5    | 3000K       | 91  | 3700 lm            | 12           |
| 0020304               | CMI-TC 70W/WDL  | 70W  | 80V  | 0.88A   | Clear       | G8.5    | 3000K       | 90  | 6900 lm            | 12           |

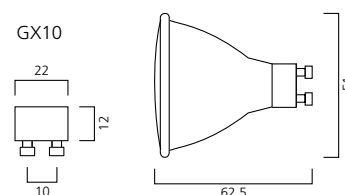
## BRITESPOT ES50™ / ESD50™



Metal Halide BriteSpot /WDL



- The most compact 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](http://www.havells-sylvania.com))
- Wide range of interior applications in retail, restaurants, hotels, galleries and residential



## BRITESPOT ES50™ / ESD50™

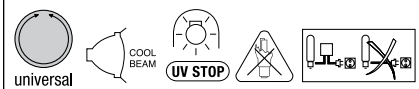
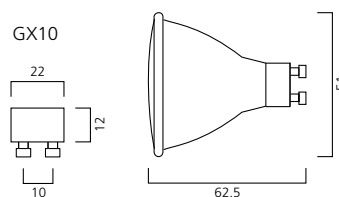
| Code                             | Description             | Watt | Volt | Current | Beam Angle | Cap  | Colour Temp | CRI | Luminous Intensity | Packing Qty. |
|----------------------------------|-------------------------|------|------|---------|------------|------|-------------|-----|--------------------|--------------|
| <b>BriteSpot ES50™</b>           |                         |      |      |         |            |      |             |     |                    |              |
| 0020272                          | BriteSpot ES50 35W 24°  | 39W  | 100V | 0.53A   | 24°        | GX10 | 3000K       | 90  | 7000 cd            | 15           |
| 0020270                          | BriteSpot ES50 35W 38°  | 39W  | 100V | 0.53A   | 38°        | GX10 | 3000K       | 90  | 4000 cd            | 15           |
| 0020271                          | BriteSpot ES50 35W 60°  | 39W  | 100V | 0.53A   | 60°        | GX10 | 3000K       | 90  | 2000 cd            | 15           |
| <b>BriteSpot ESD50™ Dichroic</b> |                         |      |      |         |            |      |             |     |                    |              |
| 0020273                          | BriteSpot ESD50 35W 24° | 39W  | 100V | 0.53A   | 24°        | GX10 | 3000K       | 90  | 7000 cd            | 15           |
| 0020274                          | BriteSpot ESD50 35W 38° | 39W  | 100V | 0.53A   | 38°        | GX10 | 3000K       | 90  | 4000 cd            | 15           |
| 0020275                          | BriteSpot ESD50 35W 60° | 39W  | 100V | 0.53A   | 60°        | GX10 | 3000K       | 90  | 2000 cd            | 15           |



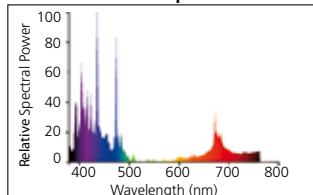
## BRITESPOT ESD50™ COLOURED



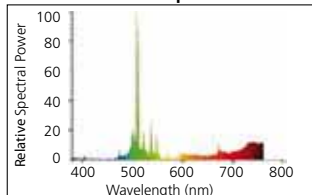
- High efficiency metal halide light source
- Very deep saturated colours in a choice of blue, green, red and yellow
- First metal halide lamp available in strong red and yellow colours
- Narrow spot beam delivers extra punch for accent and display lighting
- Operation on compatible electronic gear as listed on the corporate website ([www.havells-sylvania.com](http://www.havells-sylvania.com))
- Ideal for special effects, accenting architectural features, or attracting attention in retail and commercial environments



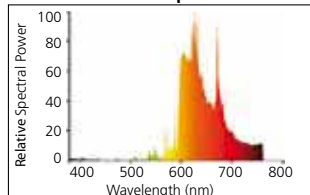
**Metal Halide BriteSpot Blue**



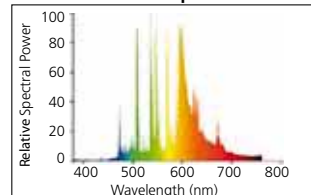
**Metal Halide BriteSpot Green**



**Metal Halide BriteSpot Red**



**Metal Halide BriteSpot Yellow**



## BRITESPOT ESD50™ COLOURED

| Code                             | Description                | Watt | Volt | Current | Beam Angle | Cap  | Colour point CCx | Colour point CCy | Packing Qty. |
|----------------------------------|----------------------------|------|------|---------|------------|------|------------------|------------------|--------------|
| <b>BriteSpot ESD50™ Coloured</b> |                            |      |      |         |            |      |                  |                  |              |
| <b>0020279</b>                   | BriteSpot ESD50 35W/Blue   | 39W  | 100V | 0.53A   | 12°        | GX10 | 0.206            | 0.081            | 15           |
| <b>0020280</b>                   | BriteSpot ESD50 35W/Green  | 39W  | 100V | 0.53A   | 12°        | GX10 | 0.249            | 0.548            | 15           |
| <b>0020281</b>                   | BriteSpot ESD50 35W/Red    | 39W  | 100V | 0.53A   | 12°        | GX10 | 0.635            | 0.353            | 15           |
| <b>0020282</b>                   | BriteSpot ESD50 35W/Yellow | 39W  | 100V | 0.53A   | 12°        | GX10 | 0.476            | 0.466            | 15           |



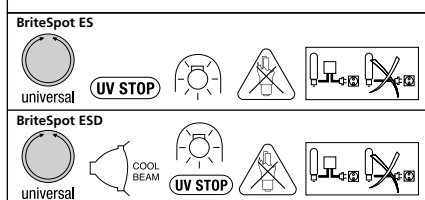
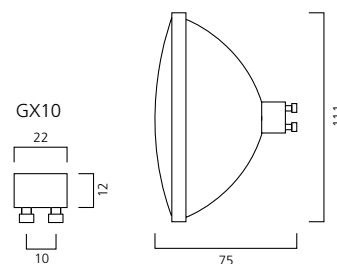
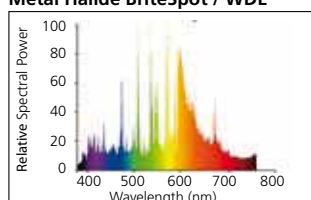
## BRITESPOT ES111™ / ESD111™



- 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-lock cap
- Operation on compatible electronic gear as listed on the corporate website ([www.havells-sylvania.com](http://www.havells-sylvania.com))
- Wide range of interior applications in shops, restaurants, hotels, galleries and many other cultural and leisure venues



**Metal Halide BriteSpot / WDL**



| 8°     |    | 35W    |
|--------|----|--------|
| 140mmØ | 1m | 4000lx |
| 280mmØ | 2m | 1000lx |
| 420mmØ | 3m | 4445lx |
| 55 mmØ | 4m | 2500lx |

| 24°     |    | 35W    | 70W    |
|---------|----|--------|--------|
| 425mmØ  | 1m | 1000lx | 2000lx |
| 850mmØ  | 2m | 2500lx | 5000lx |
| 1275mmØ | 3m | 1111lx | 2222lx |
| 1700mmØ | 4m | 625lx  | 1250lx |

| 45°     |    | 35W    | 70W    |
|---------|----|--------|--------|
| 828mmØ  | 1m | 3500lx | 7000lx |
| 1657mmØ | 2m | 875lx  | 1750lx |
| 2485mmØ | 3m | 389lx  | 778lx  |
| 3314mmØ | 4m | 219lx  | 438lx  |

### BRITESPOT ES111™ / ESD111™

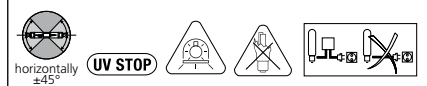
| Code                              | Description              | Watt | Volt | Current | Beam Angle | Cap  | Colour Temp | CRI | Luminous Intensity | Packing Qty. |
|-----------------------------------|--------------------------|------|------|---------|------------|------|-------------|-----|--------------------|--------------|
| <b>BriteSpot ES111™</b>           |                          |      |      |         |            |      |             |     |                    |              |
| 0020200                           | BriteSpot ES111 35W 8°   | 39W  | 100V | 0.53A   | 8°         | GX10 | 3000K       | 90  | 40000 cd           | 15           |
| 0020201                           | BriteSpot ES111 35W 24°  | 39W  | 100V | 0.53A   | 24°        | GX10 | 3000K       | 90  | 10000 cd           | 15           |
| 0020202                           | BriteSpot ES111 35W 45°  | 39W  | 100V | 0.53A   | 45°        | GX10 | 3000K       | 90  | 3500 cd            | 15           |
| <b>BriteSpot ESD111™ Dichroic</b> |                          |      |      |         |            |      |             |     |                    |              |
| 0020207                           | BriteSpot ESD111 70W 24° | 75W  | 100V | 0.98A   | 24°        | GX10 | 3000K       | 90  | 20000 cd           | 15           |
| 0020208                           | BriteSpot ESD111 70W 45° | 75W  | 100V | 0.98A   | 45°        | GX10 | 3000K       | 90  | 7000 cd            | 15           |



## BRITESPOT DE™

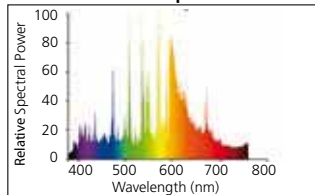


- Dramatic improvement in performance over standard double ended metal halide
- BriteSpot technology delivers same colour stability over life as ceramic metal halide
- Excellent colour rendering index of Ra85 available in both WDL and NDL colours
- High luminous efficacy combined with UV stop quartz to reduce colour fading of merchandise
- Excellent for interior lighting of showrooms, shop windows, exhibitions, commercial premises and reception areas
- Delivers stable-colour architectural lighting in exterior applications

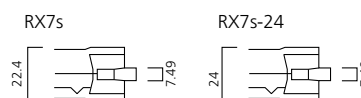
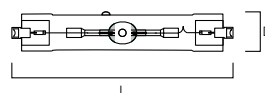
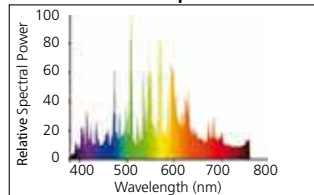


|   | 70W   | 150W  |
|---|-------|-------|
| L | 117.6 | 135.4 |
| D | 22    | 25    |

Metal Halide BriteSpot / WDL



Metal Halide BriteSpot / NDL



## BRITESPOT DE™

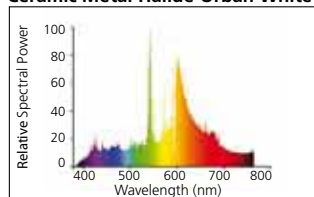
| Code                 | Description           | Watt | Volt | Current | Cap     | Colour Temp | CRI | Luminous Flux | Packing Qty. |
|----------------------|-----------------------|------|------|---------|---------|-------------|-----|---------------|--------------|
| <b>BriteSpot DE™</b> |                       |      |      |         |         |             |     |               |              |
| 0021210              | BriteSpot DE 70W/WDL  | 75W  | 95V  | 0.98A   | RX7s    | 3000K       | 85  | 6000 lm       | 10           |
| 0021211              | BriteSpot DE 70W/NDL  | 75W  | 95V  | 0.98A   | RX7s    | 4200K       | 85  | 6000 lm       | 10           |
| 0021212              | BriteSpot DE 150W/WDL | 150W | 95V  | 1.80A   | RX7s-24 | 3000K       | 85  | 12500 lm      | 10           |
| 0021213              | BriteSpot DE 150W/NDL | 150W | 95V  | 1.80A   | RX7s-24 | 4200K       | 85  | 12500 lm      | 10           |



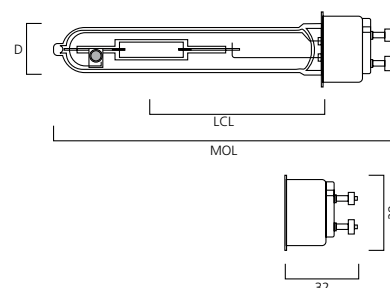
## URBANWHITE



Ceramic Metal Halide-Urban White



- 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



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

## URBANWHITE

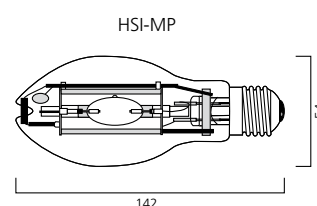
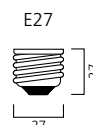
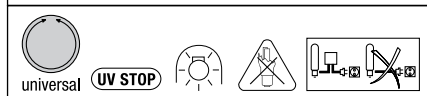
| Code              | Description            | Watt | Volt | Current | Lamp Finish | Cap   | Colour Temp | Luminous Flux | Packing Qty. |
|-------------------|------------------------|------|------|---------|-------------|-------|-------------|---------------|--------------|
| <b>UrbanWhite</b> |   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



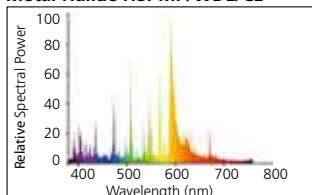
## HSI-MP METALARC



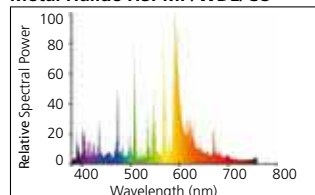
- A family of metal halide lamps specially designed for use in open fixtures
- Long service life of 15,000 hours keeps maintenance costs to a minimum
- Excellent colour maintenance throughout lamp life
- UV-stop outer jacket for reduced risks of fading
- Large variety of colours and wattages, in both 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



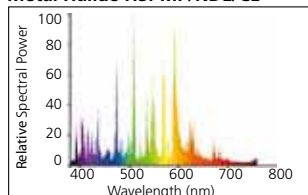
Metal Halide HSI-MP/WDL/CL



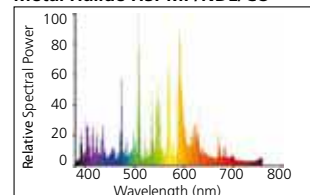
Metal Halide HSI-MP/WDL/CO



Metal Halide HSI-MP/NDL/CL



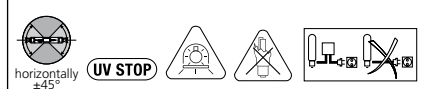
Metal Halide HSI-MP/NDL/CO



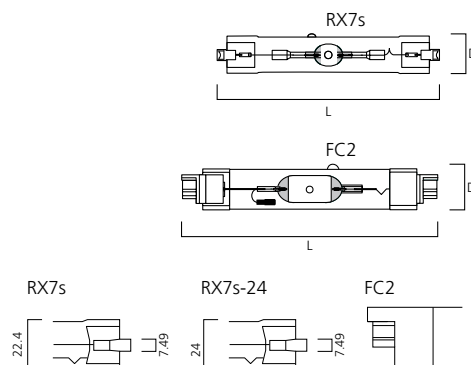
## HSI-MP METALARC

| Code                   | Description        | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------|--------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSI-MP MetalArc</b> |                    |      |      |         |             |     |             |               |              |
| 0020810                | HSI-MP 70W CL/WDL  | 75W  | 95V  | 1.00A   | Clear       | E27 | 3000K       | 5500 lm       | 12           |
| 0020811                | HSI-MP 70W CO/WDL  | 75W  | 95V  | 1.00A   | Coated      | E27 | 2900K       | 5200 lm       | 12           |
| 0020812                | HSI-MP 70W CL/NDL  | 75W  | 95V  | 1.00A   | Clear       | E27 | 4000K       | 5800 lm       | 12           |
| 0020813                | HSI-MP 70W CO/NDL  | 75W  | 95V  | 1.00A   | Coated      | E27 | 3800K       | 5500 lm       | 12           |
| 0020820                | HSI-MP 100W CL/WDL | 100W | 100V | 1.15A   | Clear       | E27 | 3000K       | 8500 lm       | 12           |
| 0020821                | HSI-MP 100W CO/WDL | 100W | 100V | 1.15A   | Coated      | E27 | 2900K       | 7900 lm       | 12           |
| 0020822                | HSI-MP 100W CL/NDL | 100W | 105V | 1.15A   | Clear       | E27 | 4000K       | 8500 lm       | 12           |
| 0020823                | HSI-MP 100W CO/NDL | 100W | 105V | 1.15A   | Coated      | E27 | 3800K       | 8100 lm       | 12           |
| 0020830                | HSI-MP 150W CL/WDL | 150W | 95V  | 1.80A   | Clear       | E27 | 3000K       | 13000 lm      | 12           |
| 0020831                | HSI-MP 150W CO/WDL | 150W | 95V  | 1.80A   | Coated      | E27 | 2900K       | 12500 lm      | 12           |
| 0020832                | HSI-MP 150W CL/NDL | 150W | 95V  | 1.80A   | Clear       | E27 | 4000K       | 13000 lm      | 12           |
| 0020833                | HSI-MP 150W CO/NDL | 150W | 95V  | 1.80A   | Coated      | E27 | 3800K       | 12500 lm      | 12           |

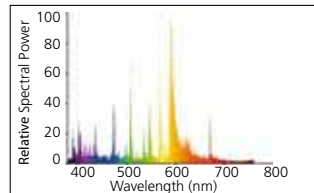
## HSI-TD METALARC



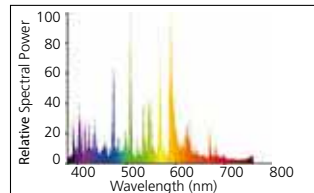
| HSI-TD | 70W   | 150W  | 250W  |
|--------|-------|-------|-------|
| L      | 117.6 | 135.4 | 161.6 |
| D      | 22    | 25    | 27.5  |



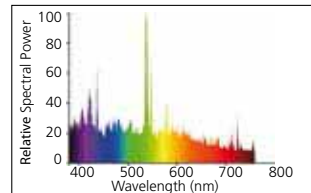
**Metal Halide HSI-TD/WDL**



**Metal Halide HSI-TD/NDL**



**Metal Halide HSI-TD/D**



## HSI-TD METALARC

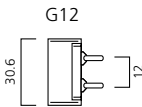
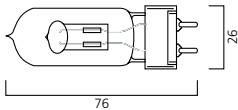
| Code                   | Description     | Watt | Volt | Current | Lamp Finish | Cap     | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------|-----------------|------|------|---------|-------------|---------|-------------|---------------|--------------|
| <b>HSI-TD MetalArc</b> |                 |      |      |         |             |         |             |               |              |
| <b>0021030</b>         | HSI-TD 70W/WDL  | 75W  | 95V  | 0.98A   | Clear       | RX7s    | 3000K       | 5500 lm       | 10           |
| <b>0021031</b>         | HSI-TD 70W/NDL  | 75W  | 95V  | 0.98A   | Clear       | RX7s    | 4200K       | 5800 lm       | 10           |
| <b>0021045</b>         | HSI-TD 70W/D    | 75W  | 108V | 0.98A   | Clear       | RX7s    | 5600K       | 5400 lm       | 10           |
| <b>0021033</b>         | HSI-TD 150W/WDL | 150W | 95V  | 1.80A   | Clear       | RX7s-24 | 3000K       | 12500 lm      | 10           |
| <b>0021034</b>         | HSI-TD 150W/NDL | 150W | 95V  | 1.80A   | Clear       | RX7s-24 | 4200K       | 12500 lm      | 10           |
| <b>0021046</b>         | HSI-TD 150W/D   | 150W | 102V | 1.80A   | Clear       | RX7s-24 | 5200K       | 11000 lm      | 10           |
| <b>0021036</b>         | HSI-TD 250W/WDL | 250W | 100V | 3.00A   | Clear       | FC2     | 3200K       | 20000 lm      | 10           |
| <b>0021037</b>         | HSI-TD 250W/NDL | 250W | 100V | 3.00A   | Clear       | FC2     | 4200K       | 20000 lm      | 10           |
| <b>0021047</b>         | HSI-TD 250W/D   | 250W | 112V | 3.00A   | Clear       | FC2     | 5200K       | 18000 lm      | 10           |



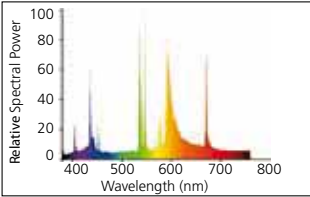
# HSI-T METALARC



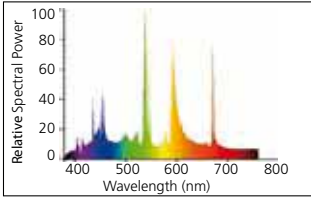
- Single ended quartz metal halide lamps with a compact tubular clear outer envelope
- Small point light source allows compact luminaire designs
- Ideal for spotlighting where high intensities are required
- UV-stop outer jacket for reduced risks of fading
- Suitable for interior accent and display lighting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



Metal Halide HSI-T/WDL



Metal Halide HSI-T/NDL

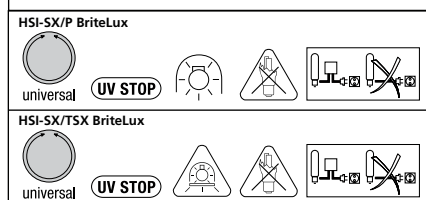


## HSI-T METALARC

| Code                  | Description    | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-----------------------|----------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSI-T MetalArc</b> |                |      |      |         |             |     |             |               |              |
| 0020335               | HSI-T 70W/WDL  | 75W  | 95V  | 0.95A   | Clear       | G12 | 3000K       | 5200 lm       | 12           |
| 0020340               | HSI-T 70W/NDL  | 75W  | 95V  | 0.95A   | Clear       | G12 | 4200K       | 5200 lm       | 12           |
| 0020336               | HSI-T 150W/WDL | 146W | 95V  | 1.82A   | Clear       | G12 | 3000K       | 12000 lm      | 12           |
| 0020341               | HSI-T 150W/NDL | 146W | 95V  | 1.82A   | Clear       | G12 | 4200K       | 12500 lm      | 12           |

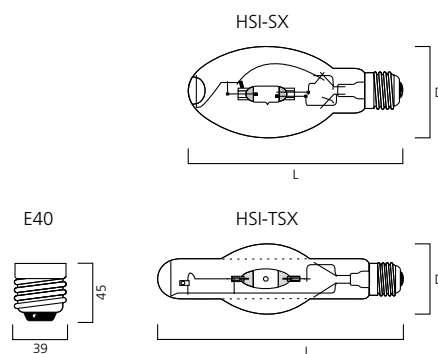


## HSI-SX / HSI-TSX BRITELUX

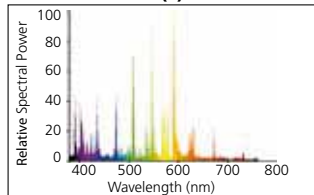


- SX family of metal halide lamps for use with a sodium ballast
- Direct retrofit for sodium lamps to upgrade lighting to a more pleasant white light
- High lumen package with good colour rendering properties
- Good colour rendering properties
- 'P' protected versions incorporate integral shroud for 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

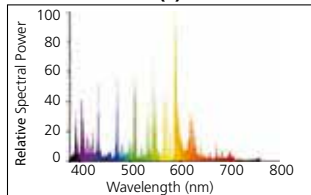
| HSI-SX  | 250W | 400W |
|---------|------|------|
| L       | 227  | 290  |
| D       | 90   | 120  |
| HSI-TSX | 250W | 400W |
| L       | 260  | 270  |
| D       | 48   | 63   |



Metal Halide HSI-(T)SX/CL



Metal Halide HSI-(T)SX/CO



## HSI-SX / HSI-TSX BRITELUX

| Code                              | Description               | Watt | Volt | Current | Lamp Finish   | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-----------------------------------|---------------------------|------|------|---------|---------------|-----|-------------|---------------|--------------|
| <b>HSI-SX BriteLux Elliptical</b> |                           |      |      |         |               |     |             |               |              |
| 0020772                           | HSI-SX 250W/CL BriteLux   | 265W | 100V | 2.9A    | Clear         | E40 | 4100K       | 23500 lm      | 12           |
| 0020776                           | HSI-SX 250W/CL/P BriteLux | 265W | 100V | 2.9A    | Cl./Protected | E40 | 4500K       | 21000 lm      | 12           |
| 0020771                           | HSI-SX 250W/CO BriteLux   | 265W | 100V | 2.9A    | Coated        | E40 | 3800K       | 22300 lm      | 12           |
| 0020775                           | HSI-SX 250W/CO/P BriteLux | 265W | 100V | 2.9A    | Co./Protected | E40 | 4200K       | 20000 lm      | 12           |
| 0020774                           | HSI-SX 400W/CL/P BriteLux | 425W | 120V | 4.4A    | Cl./Protected | E40 | 4300K       | 42000 lm      | 6            |
| 0020773                           | HSI-SX 400W/CO/P BriteLux | 425W | 120V | 4.4A    | Co./Protected | E40 | 4200K       | 40000 lm      | 6            |
| <b>HSI-TSX BriteLux Tubular</b>   |                           |      |      |         |               |     |             |               |              |
| 0024407                           | HSI-TSX 250W BriteLux     | 265W | 100V | 2.9A    | Clear         | E40 | 4200K       | 21000 lm      | 12           |
| 0024409                           | HSI-TSX 400W BriteLux     | 425W | 105V | 4.4A    | Clear         | E40 | 4200K       | 40000 lm      | 12           |

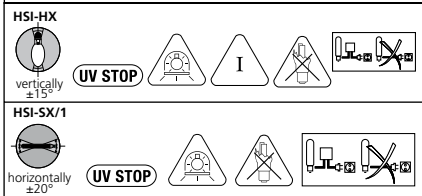


HSI-SX(P) BriteLux Elliptical



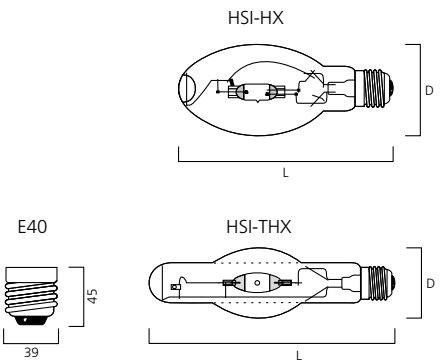
HSI-TSX BriteLux Tubular

## HSI-HX / HSI-THX

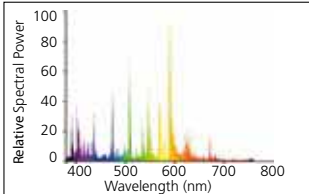


- HX family of metal halide lamps for use with a mercury ballast with soft ignitor
- HX family can also be operated on SHP control gear, resulting in both different output and colour temperature
- 'I' internal ignitor versions available, for simpler circuits with no ignitor
- 'I' versions can be used 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

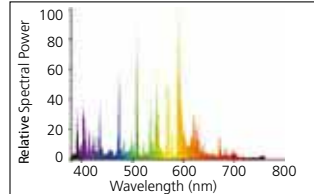
| HSI-HX  | 250W | 400W |
|---------|------|------|
| L       | 227  | 290  |
| D       | 90   | 120  |
| HSI-THX | 250W | 400W |
| L       | 260  | 270  |
| D       | 48   | 63   |



Metal Halide HSI-T/HX/CL



Metal Halide HSI-HX/CO



## HSI-HX / HSI-THX

| Code                     | Description      | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|--------------------------|------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSI-HX Elliptical</b> |                  |      |      |         |             |     |             |               |              |
| 0020357                  | HSI-HX 250W/CL   | 245W | 130V | 2.1A    | Clear       | E40 | 4500K       | 23000 lm      | 12           |
| 0020355                  | HSI-HX 250W/CO   | 245W | 130V | 2.1A    | Coated      | E40 | 3800K       | 21000 lm      | 12           |
| 0020353                  | HSI-HX 400W/CL   | 400W | 130V | 3.4A    | Clear       | E40 | 4500K       | 37000 lm      | 12           |
| 0020350                  | HSI-HX 400W/CO   | 400W | 130V | 3.4A    | Coated      | E40 | 3800K       | 35200 lm      | 12           |
| 0020351                  | HSI-HX 400W/CO/I | 400W | 130V | 3.4A    | Coated      | E40 | 3800K       | 35200 lm      | 12           |
| <b>HSI-THX Tubular</b>   |                  |      |      |         |             |     |             |               |              |
| 0020394                  | HSI-THX 250W     | 245W | 130V | 2.1A    | Clear       | E40 | 4500K       | 20000 lm      | 12           |
| 0020546                  | HSI-THX 400W     | 400W | 130V | 3.4A    | Clear       | E40 | 4200K       | 36000 lm      | 12           |



HSI-HX Elliptical



HSI-THX Tubular

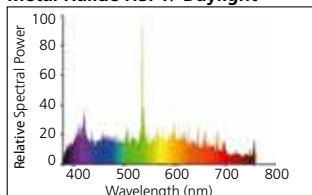
## HSI-T DAYLIGHT



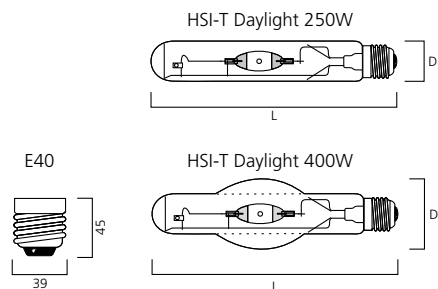
- Single ended metal halide lamps with crisp daylight colour
- Excellent colour rendering Class 1A
- High light output
- Good lumen maintenance over life
- Industrial lighting e.g. car parks, rail yards, petrol stations and street lighting
- Sports arena lighting



Metal Halide HSI-T/ Daylight



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



## HSI-T DAYLIGHT

| Code                  | Description  | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-----------------------|--------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSI-T Daylight</b> |              |      |      |         |             |     |             |               |              |
| <b>0020530</b>        | HSI-T 250W/D | 250W | 112V | 3.0A    | Clear       | E40 | 5300K       | 20000 lm      | 12           |
| <b>0020531</b>        | HSI-T 400W/D | 400W | 122V | 4.4A    | Clear       | E40 | 6100K       | 32000 lm      | 12           |



# HSI-T





HSI-T

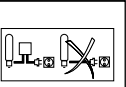
horizontally  
±20°



UV STOP









HSI-T/1

horizontally  
±20°



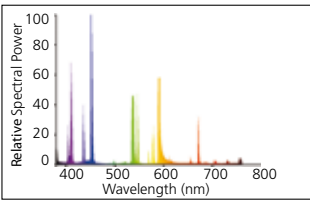
UV STOP







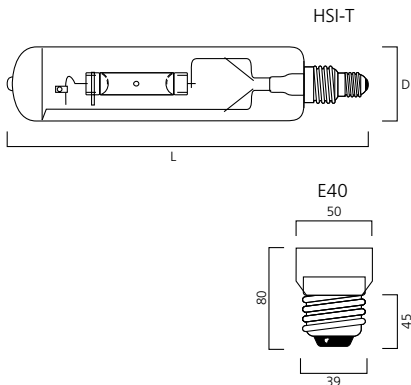
Metal Halide HSI-T 2000W/NDL



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



## HSI-T

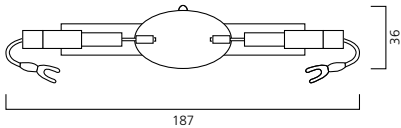
| Code    | Description          | Watt  | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|---------|----------------------|-------|------|---------|-------------|-----|-------------|---------------|--------------|
| HSI-T   |                      |       |      |         |             |     |             |               |              |
| 0020597 | HSI-T 1000W          | 965W  | 130V | 8.25A   | Clear       | E40 | 4000K       | 81000 lm      | 4            |
| 0020533 | HSI-T 2000W-S/380V   | 2000W | 235V | 9.00A   | Clear       | E40 | 4000K       | 200000 lm     | 4            |
| 0020540 | HSI-T 2000W-S/I/380V | 2000W | 235V | 9.00A   | Clear       | E40 | 4000K       | 200000 lm     | 4            |



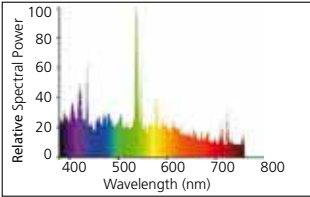
# HSI-TD



- 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



Metal Halide HSI-TD 2000W/D



## HSI-TD

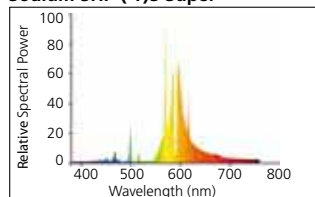
| Code           | Description    | Watt  | Volt | Current | Lamp Finish | Cap   | Colour Temp | Luminous Flux | Packing Qty. |
|----------------|----------------|-------|------|---------|-------------|-------|-------------|---------------|--------------|
| <b>HSI-TD</b>  |                |       |      |         |             |       |             |               |              |
| <b>0020349</b> | HSI-TD 1000W/D | 950W  | 130V | 9.60A   | Clear       | Cable | 5900K       | 90000 lm      | 10           |
| <b>0020339</b> | HSI-TD 2000W/D | 1950W | 205V | 11.30A  | Clear       | Cable | 5900K       | 200000 lm     | 10           |



## SHP-S / SHP-TS SUPER



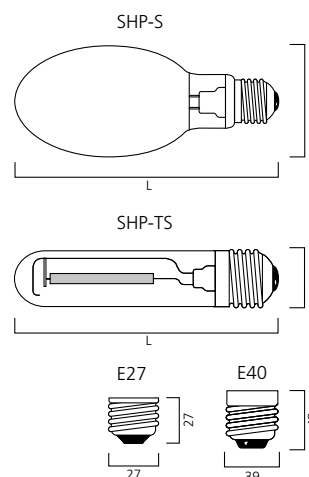
**Sodium SHP-(-T)S Super**



- 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  | 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 | 600W |
| L      | 156 | 156 | 156 | 211  | 211  | 260  | 292  | 292  |
| D      | 39  | 39  | 39  | 48   | 48   | 48   | 48   | 48   |



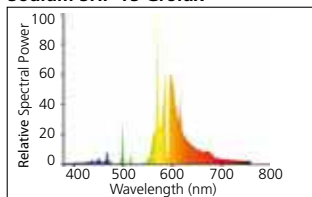
### SHP-S/SHP-TS SUPER

| Code                          | Description | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-------------------------------|-------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHP-S Super Elliptical</b> |             |      |      |         |             |     |             |               |              |
| 0020448                       | SHP-S 35W   | 35W  | 90V  | 0.49A   | Coated      | E27 | 2050K       | 1800 lm       | 40           |
| 0020688                       | SHP-S 50W   | 50W  | 85V  | 0.76A   | Coated      | E27 | 2050K       | 3600 lm       | 40           |
| 0020690                       | SHP-S 70W   | 70W  | 90V  | 0.98A   | Coated      | E27 | 2050K       | 6000 lm       | 40           |
| 0020692                       | SHP-S 100W  | 100W | 100V | 1.20A   | Coated      | E40 | 2050K       | 10000 lm      | 40           |
| 0020693                       | SHP-S 150W  | 150W | 100V | 1.80A   | Coated      | E40 | 2050K       | 16900 lm      | 12           |
| 0020715                       | SHP-S 250W  | 250W | 100V | 2.95A   | Coated      | E40 | 2050K       | 30000 lm      | 12           |
| 0020716                       | SHP-S 400W  | 410W | 105V | 4.40A   | Coated      | E40 | 2050K       | 54000 lm      | 12           |
| <b>SHP-TS Super Tubular</b>   |             |      |      |         |             |     |             |               |              |
| 0020326                       | SHP-TS 35W  | 35W  | 90V  | 0.49A   | Clear       | E27 | 2050K       | 2100lm        | 40           |
| 0020687                       | SHP-TS 50W  | 50W  | 85V  | 0.76A   | Clear       | E27 | 2050K       | 4200 lm       | 40           |
| 0020678                       | SHP-TS 70W  | 70W  | 90V  | 0.98A   | Clear       | E27 | 2050K       | 6800 lm       | 40           |
| 0020686                       | SHP-TS 100W | 100W | 100V | 1.20A   | Clear       | E40 | 2050K       | 10700 lm      | 12           |
| 0020685                       | SHP-TS 150W | 150W | 100V | 1.80A   | Clear       | E40 | 2050K       | 17500 lm      | 12           |
| 0020713                       | SHP-TS 250W | 255W | 100V | 2.95A   | Clear       | E40 | 2050K       | 33400 lm      | 12           |
| 0020714                       | SHP-TS 400W | 400W | 100V | 4.50A   | Clear       | E40 | 2050K       | 56500 lm      | 12           |
| 0020805                       | SHP-TS 600W | 600W | 110V | 6.00A   | Clear       | E40 | 2050K       | 90000 lm      | 12           |

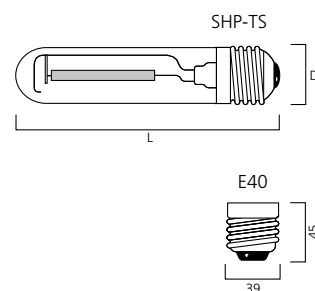
## SHP-TS GROLUX



**Sodium SHP-TS GroLux**



- 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
- Optimized for the highest Phytolumens or PAR output
- GroLux light spectrum maximizes 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



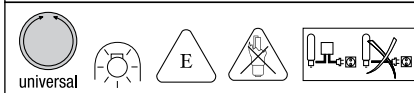
| SHP-TS GroLux | 400W | 600W |
|---------------|------|------|
| L             | 292  | 292  |
| D             | 48   | 48   |

## SHP-TS GROLUX

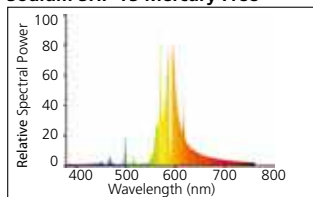
| Code                         | Description             | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Par (μ mol) | Photosynthetic (PhytoLm) | Packing Qty. |
|------------------------------|-------------------------|------|------|---------|-------------|-----|-------------|-------------|--------------------------|--------------|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



## SHP-TS MERCURY FREE

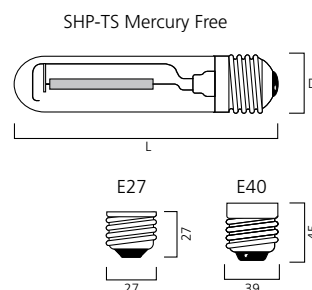


Sodium SHP-TS Mercury Free



- Range of environmentally friendly high pressure sodium lamps containing no mercury
- Fast run-up characteristics in comparison to high pressure sodium lamps with mercury
- Performance characteristics in line with other high pressure sodium lamps
- For applications where environmental and disposal considerations are important
- Complete range of clear tubular lamps
- For streets, parks, tunnels and industrial lighting in general

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

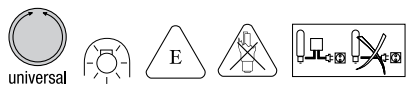


## SHP-TS MERCURY FREE

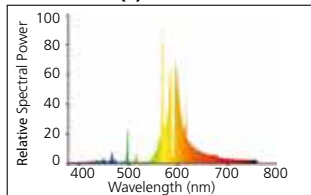
| Code                               | Description              | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------------------|--------------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHP-TS Mercury Free Tubular</b> |                          |      |      |         |             |     |             |               |              |
| 0020990                            | SHP-TS 70W Mercury Free  | 70W  | 90V  | 0.98A   | Clear       | E27 | 2200K       | 5300 lm       | 40           |
| 0020992                            | SHP-TS 100W Mercury Free | 100W | 100V | 1.20A   | Clear       | E40 | 2200K       | 9000 lm       | 12           |
| 0020994                            | SHP-TS 150W Mercury Free | 153W | 100V | 1.80A   | Clear       | E40 | 2200K       | 16000 lm      | 12           |
| 0020996                            | SHP-TS 250W Mercury Free | 258W | 100V | 2.90A   | Clear       | E40 | 2200K       | 29000 lm      | 12           |
| 0020998                            | SHP-TS 400W Mercury Free | 408W | 100V | 4.50A   | Clear       | E40 | 2200K       | 53000 lm      | 12           |



## SHP-S / SHP-TS TWINARC



Sodium SHP-(T)S TwinArc



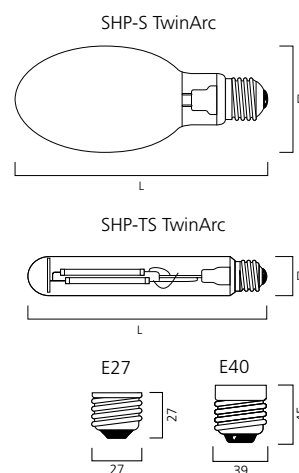
- Range of high pressure sodium lamps with double arc tube construction
- Dual arc tube design guarantees immediate re-strike after a power interruption
- Doubled lamp life and reduced occurrence of early failures
- Exceptional reliability, offering 6 years of maintenance-free service and superior lumen 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 | 35W | 50W | 70W | 100W | 150W | 250W | 400W |
|-------|-----|-----|-----|------|------|------|------|
| L     | 165 | 165 | 165 | 186  | 227  | 227  | 292  |
| D     | 72  | 72  | 72  | 78   | 91   | 91   | 122  |

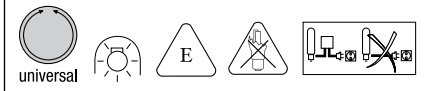
| SHP-TS | 50W | 70W | 100W | 150W | 250W | 400W | 1000W |
|--------|-----|-----|------|------|------|------|-------|
| L      | 156 | 156 | 211  | 211  | 260  | 292  | 400   |
| D      | 39  | 39  | 48   | 48   | 48   | 48   | 68    |



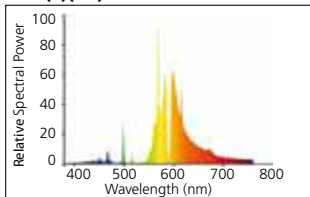
## SHP-S / SHP-TS TWINARC

| Code                            | Description         | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|---------------------------------|---------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHP-S TwinArc Elliptical</b> |                     |      |      |         |             |     |             |               |              |
| 0020720                         | SHP-S 35W TwinArc   | 35W  | 90V  | 0.49A   | Coated      | E27 | 2050K       | 1800 lm       | 40           |
| 0020717                         | SHP-S 50W TwinArc   | 50W  | 85V  | 0.76A   | Coated      | E27 | 2050K       | 3600 lm       | 40           |
| 0020719                         | SHP-S 70W TwinArc   | 70W  | 90V  | 0.98A   | Coated      | E27 | 2050K       | 6000 lm       | 40           |
| 0020725                         | SHP-S 100W TwinArc  | 100W | 100V | 1.20A   | Coated      | E40 | 2050K       | 9500 lm       | 40           |
| 0020740                         | SHP-S 150W TwinArc  | 150W | 100V | 1.80A   | Coated      | E40 | 2050K       | 15500 lm      | 12           |
| 0020742                         | SHP-S 250W TwinArc  | 255W | 100V | 2.95A   | Coated      | E40 | 2050K       | 30000 lm      | 12           |
| 0020744                         | SHP-S 400W TwinArc  | 410W | 105V | 4.40A   | Coated      | E40 | 2050K       | 52500 lm      | 12           |
| <b>SHP-TS TwinArc Tubular</b>   |                     |      |      |         |             |     |             |               |              |
| 0020712                         | SHP-TS 50W TwinArc  | 50W  | 85V  | 0.76A   | Clear       | E27 | 2050K       | 4000 lm       | 40           |
| 0020718                         | SHP-TS 70W TwinArc  | 70W  | 90V  | 0.98A   | Clear       | E27 | 2050K       | 6500 lm       | 40           |
| 0020724                         | SHP-TS 100W TwinArc | 100W | 100V | 1.20A   | Clear       | E40 | 2050K       | 10000 lm      | 12           |
| 0020739                         | SHP-TS 150W TwinArc | 150W | 100V | 1.80A   | Clear       | E40 | 2050K       | 17000 lm      | 12           |
| 0020741                         | SHP-TS 250W TwinArc | 255W | 100V | 2.95A   | Clear       | E40 | 2050K       | 32000 lm      | 12           |
| 0020743                         | SHP-TS 400W TwinArc | 400W | 100V | 4.50A   | Clear       | E40 | 2050K       | 55000 lm      | 12           |
| 0020748                         | SHP-T 1000W SBY     | 960W | 100V | 10.6A   | Clear       | E40 | 2050K       | 130000 lm     | 12           |

## SHP / SHP-T STANDARD

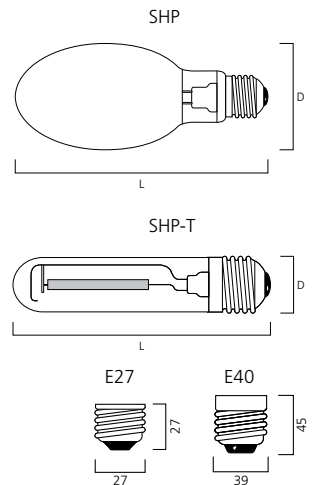


**SHP-(T)(TD) Standard**



- Exclusive 'frameless' construction for improved reliability with fewer early failures
- Large wattage range with either clear tubular or coated ellipsoidal outer bulb
- Pleasant golden white light gives a warm colour appearance
- High luminous efficacy of up to 130 lm/W
- Major application in road lighting, both on motorways and in residential streets
- Excellent choice for general industrial lighting, both indoors and for outdoor floodlighting

| SHP   | 50W | 70W | 100W | 150W | 250W | 400W |       |
|-------|-----|-----|------|------|------|------|-------|
| L     | 165 | 165 | 178  | 227  | 227  | 292  |       |
| D     | 72  | 72  | 78   | 91   | 91   | 122  |       |
| SHP-T | 50W | 70W | 100W | 150W | 250W | 400W | 1000W |
| L     | 156 | 156 | -    | 211  | 260  | 292  | 400   |
| D     | 39  | 39  | -    | 48   | 48   | 48   | 68    |



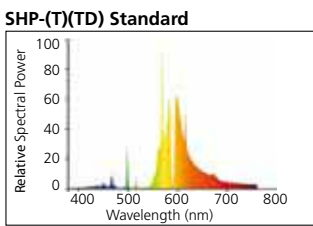
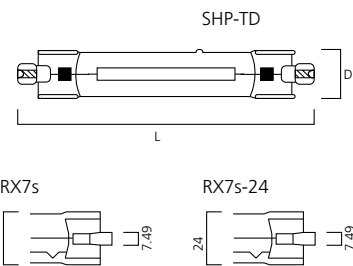
## SHP / SHP-T STANDARD

| Code                           | Description | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|--------------------------------|-------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHP Standard Elliptical</b> |             |      |      |         |             |     |             |               |              |
| 0020554                        | SHP 50W     | 50W  | 85V  | 0.76A   | Coated      | E27 | 2050K       | 3300 lm       | 40           |
| 0020555                        | SHP 70W     | 70W  | 90V  | 0.98A   | Coated      | E27 | 2050K       | 5800 lm       | 40           |
| 0020563                        | SHP 100W    | 100W | 100V | 1.20A   | Coated      | E27 | 2050K       | 10000 lm      | 40           |
| 0020479                        | SHP 150W    | 150W | 100V | 1.80A   | Coated      | E40 | 2050K       | 14000 lm      | 12           |
| 0020481                        | SHP 250W    | 250W | 100V | 3.00A   | Coated      | E40 | 2050K       | 26000 lm      | 12           |
| 0020484                        | SHP 400W    | 400W | 105V | 4.45A   | Coated      | E40 | 2050K       | 47000 lm      | 12           |
| <b>SHP-T Standard Tubular</b>  |             |      |      |         |             |     |             |               |              |
| 0020455                        | SHP-T 50W   | 50W  | 85V  | 0.76A   | Clear       | E27 | 2050K       | 3500 lm       | 40           |
| 0020457                        | SHP-T 70W   | 70W  | 90V  | 0.98A   | Clear       | E27 | 2050K       | 6000 lm       | 40           |
| 0020480                        | SHP-T 150W  | 150W | 100V | 1.80A   | Clear       | E40 | 2050K       | 14500 lm      | 12           |
| 0020482                        | SHP-T 250W  | 250W | 100V | 3.00A   | Clear       | E40 | 2050K       | 28000 lm      | 12           |
| 0020485                        | SHP-T 400W  | 392W | 100V | 4.60A   | Clear       | E40 | 2050K       | 48000 lm      | 12           |
| 0020504                        | SHP-T 1000W | 960W | 100V | 10.6A   | Clear       | E40 | 2050K       | 130000 lm     | 4            |

# SHP-TD STANDARD



- Double ended high pressure sodium lamps with a compact outer envelope
- Small size allows excellent optical control in shallow reflectors
- Pleasant golden white light gives a warm colour appearance
- Offers an alternative to double ended metal halide, for improved efficacy or colour contrast
- Interior lighting in general commercial areas, exhibition halls
- Allows high precision floodlighting of monuments, facades and public parks

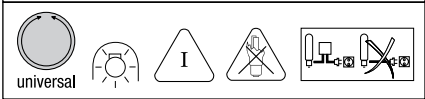


## SHP-TD STANDARD

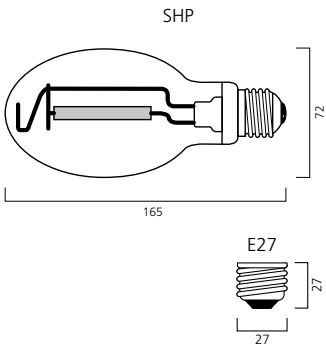
| Code                   | Description | Watt | Volt | Current | Lamp Finish | Cap     | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------|-------------|------|------|---------|-------------|---------|-------------|---------------|--------------|
| <b>SHP-TD Standard</b> |             |      |      |         |             |         |             |               |              |
| <b>0020709</b>         | SHP-TD 70W  | 70W  | 90V  | 0.98A   | Clear       | RX7s    | 1900K       | 6800 lm       | 10           |
| <b>0020711</b>         | SHP-TD 150W | 150W | 100V | 1.80A   | Clear       | RX7s-24 | 1900K       | 15000 lm      | 10           |



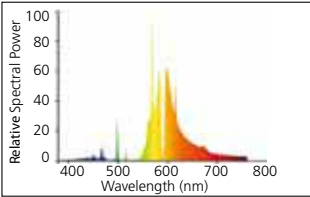
# SHP SELF-STARTING



- 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-(T)(TD) Standard



## SHP SELF-STARTING

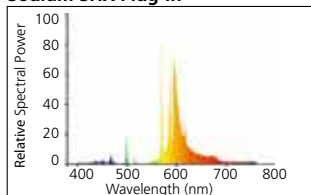
| Code                                | Description  | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-------------------------------------|--------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHP Self-Starting Elliptical</b> |              |      |      |         |             |     |             |               |              |
| 0020550                             | SHP 50W/CO-I | 50W  | 85V  | 0.76A   | Coated      | E27 | 2050K       | 3300 lm       | 40           |
| 0020551                             | SHP 70W/CO-I | 70W  | 90V  | 0.98A   | Coated      | E27 | 2050K       | 5800 lm       | 40           |
| 0020553                             | SHP 70W/CL-I | 70W  | 90V  | 0.98A   | Clear       | E27 | 2050K       | 6000 lm       | 40           |



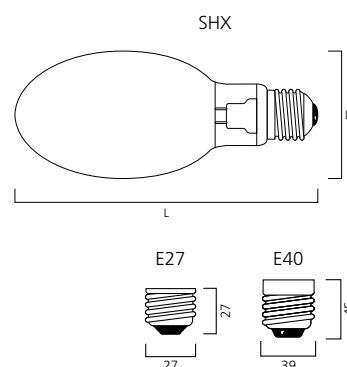
## SHX PLUG-IN



Sodium SHX Plug-In



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

## SHX PLUG-IN

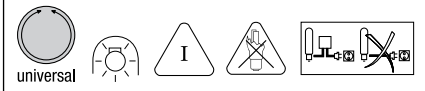
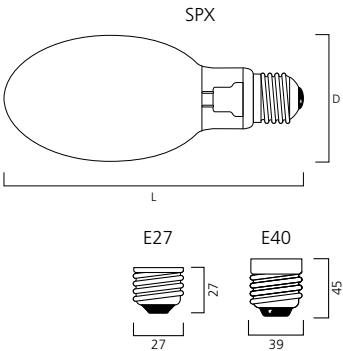
| Code                          | Description | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|-------------------------------|-------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SHX Plug-In Elliptical</b> |             |      |      |         |             |     |             |               |              |
| <b>0020560</b>                | SHX 110W    | 110W | 115V | 1.22A   | Coated      | E27 | 2000K       | 8000 lm       | 40           |
| <b>0020488</b>                | SHX 210W    | 210W | 117V | 2.25A   | Coated      | E40 | 2000K       | 18000 lm      | 12           |
| <b>0020490</b>                | SHX 350W    | 350W | 117V | 3.60A   | Coated      | E40 | 2000K       | 34500 lm      | 12           |



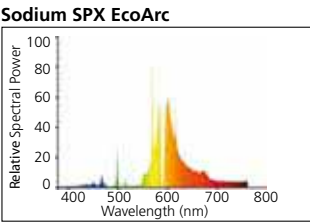
# SPX ECOARC



- 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 | 69W | 108W | 190W | 295W |
|-----|-----|------|------|------|
| L   | 176 | 176  | 228  | 292  |
| D   | 76  | 76   | 91   | 122  |

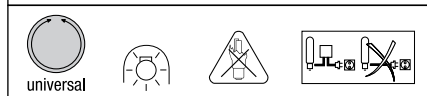


## SPX ECOARC

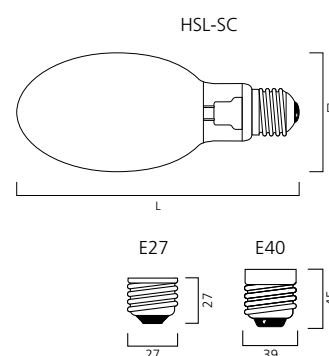
| Code                         | Description        | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------------|--------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>SPX EcoArc Elliptical</b> |                    |      |      |         |             |     |             |               |              |
| 0020800                      | SPX EcoArc 69/108W | 69W  | 100V | 0.82A   | Coated      | E27 | 1800K       | 4300 lm       | 40           |
| 0020800                      | SPX EcoArc 69/108W | 108W | 120V | 1.20A   | Coated      | E27 | 1900K       | 8800 lm       | 40           |
| 0020801                      | SPX EcoArc 190W    | 205W | 150V | 1.70A   | Coated      | E40 | 1800K       | 19000 lm      | 12           |
| 0020802                      | SPX EcoArc 295W    | 330W | 155V | 2.60A   | Coated      | E40 | 1900K       | 34000 lm      | 12           |



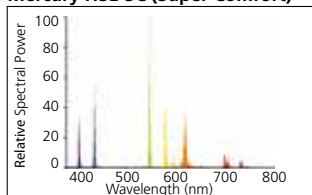
## HSL-SC SUPER COMFORT



- 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



Mercury HSL-SC (Super Comfort)



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

## HSL-SC SUPER COMFORT

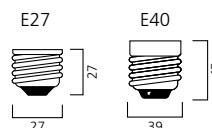
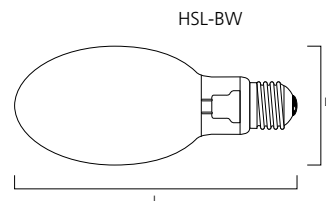
| Code                                   | Description | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|----------------------------------------|-------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSL-SC Super Comfort Elliptical</b> |             |      |      |         |             |     |             |               |              |
| <b>0020895</b>                         | HSL-SC 50W  | 50W  | 95V  | 0.61A   | Coated      | E27 | 3400K       | 2000 lm       | 24           |
| <b>0020890</b>                         | HSL-SC 80W  | 80W  | 115V | 0.80A   | Coated      | E27 | 3400K       | 4000 lm       | 40           |
| <b>0020891</b>                         | HSL-SC 125W | 125W | 125V | 1.15A   | Coated      | E27 | 3400K       | 6500 lm       | 40           |
| <b>0020892</b>                         | HSL-SC 250W | 250W | 130V | 2.13A   | Coated      | E40 | 3400K       | 14000 lm      | 12           |
| <b>0020893</b>                         | HSL-SC 400W | 400W | 135V | 3.25A   | Coated      | E40 | 3400K       | 24000 lm      | 12           |



## HSL-BW BRIGHT WHITE STANDARD

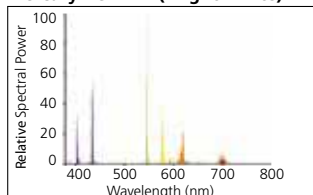


- Range of standard high pressure mercury lamps with Yttrium Vanadate phosphor
- Neutral white colour temperature of 4000K
- Low cost white lighting solution operating on simple mercury choke circuit
- Excellent reliability throughout the long 29,000 hours average rated life
- High efficacy up to 60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



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

Mercury HSL-BW (Bright White)



## HSL-BW BRIGHT WHITE STANDARD

| Code                                           | Description  | Watt  | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|------------------------------------------------|--------------|-------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSL-BW Bright White Standard Elliptical</b> |              |       |      |         |             |     |             |               |              |
| <b>0020405</b>                                 | HSL-BW 50W   | 50W   | 95V  | 0.61A   | Coated      | E27 | 4000K       | 1800 lm       | 24           |
| <b>0020406</b>                                 | HSL-BW 80W   | 80W   | 115V | 0.80A   | Coated      | E27 | 4000K       | 3800 lm       | 40           |
| <b>0020407</b>                                 | HSL-BW 125W  | 125W  | 125V | 1.15A   | Coated      | E27 | 4000K       | 6300 lm       | 40           |
| <b>0020408</b>                                 | HSL-BW 250W  | 250W  | 130V | 2.13A   | Coated      | E40 | 4000K       | 13000 lm      | 12           |
| <b>0020409</b>                                 | HSL-BW 400W  | 400W  | 135V | 3.25A   | Coated      | E40 | 3800K       | 22000 lm      | 12           |
| <b>0020410</b>                                 | HSL-BW 700W  | 700W  | 140V | 5.40A   | Coated      | E40 | 4000K       | 40000 lm      | 6            |
| <b>0020411</b>                                 | HSL-BW 1000W | 1000W | 145V | 7.50A   | Coated      | E40 | 4000K       | 58000 lm      | 6            |

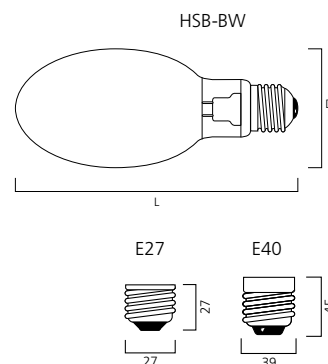


## HSB-BW BRIGHT WHITE BLENDED

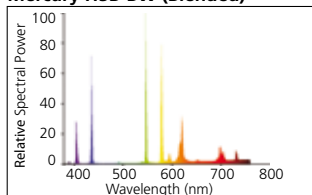


- Range of self-ballasted high pressure mercury lamps
- Direct plug-in replacement for incandescent, with mains voltage operation
- Extremely low system cost as no control gear is required
- Reliable starting down to -18°C
- Pleasant white light with good colour rendering index (Ra60)
- Improved lighting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

| HSB-BW E27 | 160W | 250W | 500W |
|------------|------|------|------|
| L          | 178  | 233  | —    |
| D          | 76   | 91   | —    |
| HSB-BW E40 | 160W | 250W | 500W |
| L          | —    | 228  | 292  |
| D          | —    | 91   | 122  |



Mercury HSB-BW (Blended)



## HSB-BW BRIGHT WHITE BLENDED

| Code                                               | Description      | Watt | Volt | Current | Lamp Finish | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|----------------------------------------------------|------------------|------|------|---------|-------------|-----|-------------|---------------|--------------|
| <b>HSB-BW Bright White Blended Elliptical 230V</b> |                  |      |      |         |             |     |             |               |              |
| 0020414                                            | HSB-BW 160W 230V | 160W | 230V | 0.80A   | Coated      | E27 | 3500K       | 3100 lm       | 40           |
| 0020415                                            | HSB-BW 250W 230V | 250W | 230V | 1.20A   | Coated      | E40 | 3500K       | 5600 lm       | 12           |
| 0020449                                            | HSB-BW 250W 230V | 250W | 230V | 1.20A   | Coated      | E27 | 3500K       | 5600 lm       | 12           |
| 0020456                                            | HSB-BW 500W 230V | 500W | 230V | 2.40A   | Coated      | E40 | 3500K       | 14000 lm      | 12           |
| <b>HSB-BW Bright White Blended Elliptical 240V</b> |                  |      |      |         |             |     |             |               |              |
| 0020475                                            | HSB-BW 160W 240V | 160W | 240V | 0.75A   | Coated      | E27 | 3500K       | 3100 lm       | 40           |
| 0020477                                            | HSB-BW 250W 240V | 250W | 240V | 1.15A   | Coated      | E40 | 3500K       | 5600 lm       | 12           |
| 0020478                                            | HSB-BW 500W 240V | 500W | 240V | 2.20A   | Coated      | E40 | 3500K       | 14000 lm      | 12           |



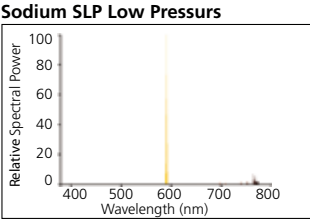
SLP

**SLP 18/35/55W**

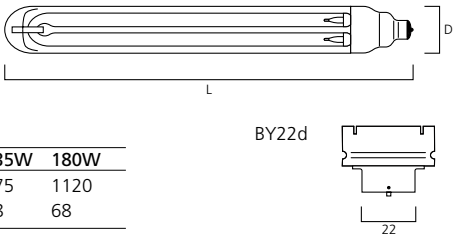
base up  $\pm 110^\circ$

**SLP 90/135/180W**

horizontally  $\pm 20^\circ$



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

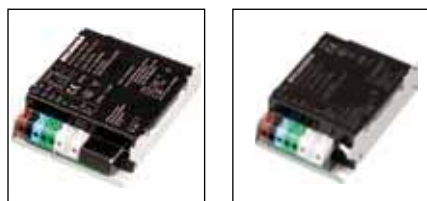
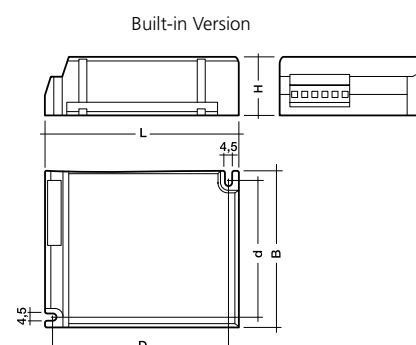
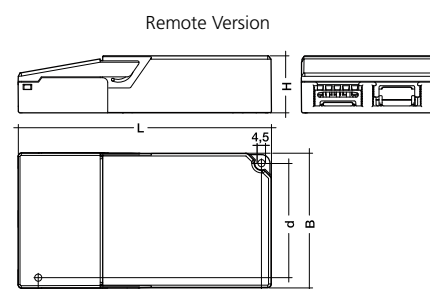
SLP

| Code        | Description | Watt | Volt | Current | Lamp Finish | Cap   | Colour Temp | Luminous Flux | Packing Qty. |
|-------------|-------------|------|------|---------|-------------|-------|-------------|---------------|--------------|
| SLP Tubular |             |      |      |         |             |       |             |               |              |
| 0020528     | SLP 18W     | 18W  | 57V  | 0.35A   | Clear       | BY22d | 1800K       | 1800 lm       | 12           |
| 0020495     | SLP 35W     | 35W  | 70V  | 0.60A   | Clear       | BY22d | 1800K       | 4500 lm       | 12           |
| 0020496     | SLP 55W     | 55W  | 109V | 0.59A   | Clear       | BY22d | 1800K       | 7400 lm       | 12           |
| 0020497     | SLP 90W     | 90W  | 112V | 0.94A   | Clear       | BY22d | 1800K       | 13000 lm      | 12           |
| 0020498     | SLP 135W    | 135W | 164V | 0.95A   | Clear       | BY22d | 1800K       | 21500 lm      | 12           |
| 0020499     | SLP 180W    | 180W | 240V | 0.91A   | Clear       | BY22d | 1800K       | 33000 lm      | 6            |

## BRITETRONIC™



- 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



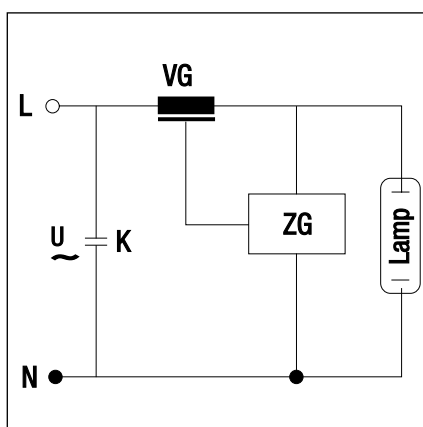
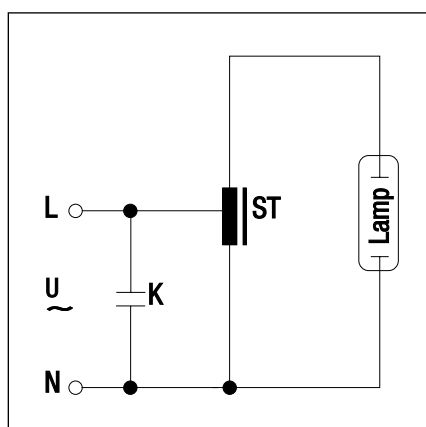
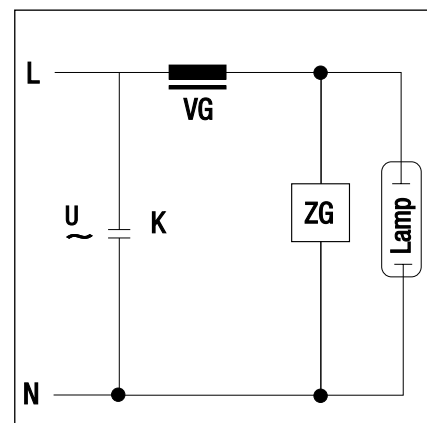
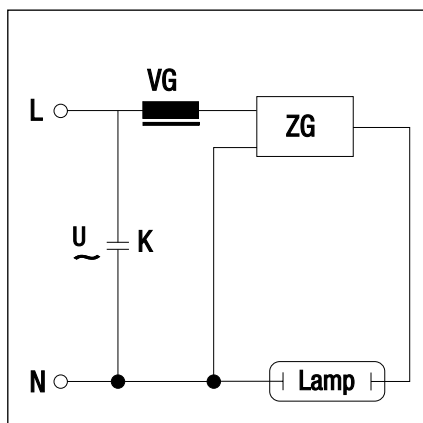
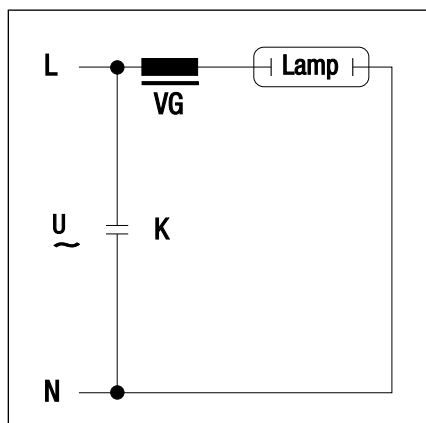
## BRITETRONIC™

| Code                 | Description                     | Lamp Type               | Gear line Voltage | L   | B  | H  | Gear type | System Power | Packing Qty. |
|----------------------|---------------------------------|-------------------------|-------------------|-----|----|----|-----------|--------------|--------------|
| <b>Brite Tronic™</b> |                                 |                         |                   |     |    |    |           |              |              |
| 0010932              | BriteTronic™ PCI 0035 B011      | BriteSpot, CMI, HSI 35W | 220-240V          | 90  | 60 | 28 | built-in  | 44.0W        | 15           |
| 0010933              | BriteTronic™ PCI 0035 B021      | BriteSpot, CMI, HSI 35W | 220-240V          | 150 | 80 | 34 | remote    | 44.0W        | 15           |
| 0010934              | BriteTronic™ PCI 0070 B011      | BriteSpot, CMI, HSI 70W | 220-240V          | 100 | 75 | 28 | built-in  | 79.0W        | 15           |
| 0010935              | BriteTronic™ PCI 0070 B021      | BriteSpot, CMI, HSI 70W | 220-240V          | 150 | 80 | 34 | remote    | 79.0W        | 15           |
| 0010940              | BriteTronic™ XTREME 0045 CMO-TW | UrbanWhite 45W          | 220-240V          | 135 | 65 | 65 | built-in  | 52.0W        | 12           |
| 0010941              | BriteTronic™ XTREME 0060 CMO-TW | UrbanWhite 60W          | 220-240V          | 135 | 65 | 65 | built-in  | 68.0W        | 12           |
| 0010942              | BriteTronic™ XTREME 0090 CMO-TW | UrbanWhite 90W          | 220-240V          | 150 | 65 | 65 | built-in  | 99.0W        | 12           |
| 0010943              | BriteTronic™ XTREME 0140 CMO-TW | UrbanWhite 140W         | 220-240V          | 130 | 65 | 65 | built-in  | 152.0W       | 12           |
| 0010912              | BriteTronic™ 20W C011           | BriteSpot, CMI, HSI     | 220-240V          | 90  | 59 | 29 | built-in  | 23.0W        | 15           |
| 0010913              | BriteTronic™ 35/70W C011 (35W)  | BriteSpot, CMI, HSI     | 220-240V          | 100 | 75 | 29 | built-in  | 43.5W        | 15           |
| 0010913              | BriteTronic™ 35/70W C011 (70W)  | BriteSpot, CMI, HSI     | 220-240V          | 100 | 75 | 29 | built-in  | 79.0W        | 15           |
| 0010914              | BriteTronic™ 35W C021           | BriteSpot, CMI, HSI     | 220-240V          | 160 | 82 | 34 | remote    | 43.5W        | 15           |
| 0010911              | BriteTronic™ 70W C021           | BriteSpot, CMI, HSI     | 220-240V          | 160 | 82 | 34 | remote    | 79.0W        | 15           |





## CIRCUIT DIAGRAMS



- L = Live conductor
- N = Neutral conductor
- U = power supply voltage
- VG= ballast
- K = capacitor
- ZG= ignitor
- ST = leakage reactance transformer

## ELECTRICAL AND PHOTOMETRIC DATA

| Item Description           | Power Consumption inc. ballast | Parallel Capacitor (microF) | CRI Class | Circuit No |
|----------------------------|--------------------------------|-----------------------------|-----------|------------|
| Superia CMI-T 35W/WDL      | 48W                            | 6                           | 1A        | 2          |
| Superia CMI-T 70W/WDL      | 88W                            | 12                          | 1A        | 2          |
| Superia CMI-T 70W/NDL      | 88W                            | 12                          | 1A        | 2          |
| Superia CMI-T 150W/WDL     | 167W                           | 20                          | 1A        | 2          |
| Superia CMI-T 150W/NDL     | 167W                           | 20                          | 1A        | 2          |
| Superia CMI-TD 70W/WDL     | 86W                            | 12                          | 1A        | 2          |
| Superia CMI-TD 70W/NDL     | 86W                            | 12                          | 1A        | 2          |
| Superia CMI-TD 150W/WDL    | 167W                           | 20                          | 1A        | 2          |
| Superia CMI-TD 150W/NDL    | 167W                           | 20                          | 1A        | 2          |
| Superia CMI-TC 35W/WDL     | 48W                            | 6                           | 1A        | 2          |
| Superia CMI-TC 70W/NDL     | 88W                            | 12                          | 1A        | 2          |
| BriteSpot ES50 35W 24°     | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ES50 35W 38°     | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ES50 35W 60°     | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD50 35W 24°    | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD50 35W 38°    | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD50 35W 60°    | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD50 35W/Blue   | 42W                            | N/A                         | N/A       | Electronic |
| BriteSpot ESD50 35W/Green  | 42W                            | N/A                         | N/A       | Electronic |
| BriteSpot ESD50 35W/Red    | 42W                            | N/A                         | N/A       | Electronic |
| BriteSpot ESD50 35W/Yellow | 42W                            | N/A                         | N/A       | Electronic |
| BriteSpot ES111 35W 8°     | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ES111 35W 24°    | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ES111 35W 45°    | 42W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD111 70W 24°   | 82W                            | N/A                         | 1A        | Electronic |
| BriteSpot ESD111 70W 45°   | 82W                            | N/A                         | 1A        | Electronic |
| BriteSpot DE 70W/WDL       | 90W                            | 12                          | 1B        | 2          |
| BriteSpot DE 70W/NDL       | 90W                            | 12                          | 1B        | 2          |
| BriteSpot DE 150W/WDL      | 170W                           | 20                          | 1B        | 2          |
| BriteSpot DE 150W/NDL      | 170W                           | 20                          | 1B        | 2          |
| HSI-MP 70W/CL/WDL          | 90W                            | 10                          | 2B        | 2          |
| HSI-MP 70W/CO/WDL          | 90W                            | 10                          | 2A        | 2          |
| HSI-MP 70W/CL/NDL          | 90W                            | 10                          | 2A        | 2          |
| HSI-MP 70W/CO/NDL          | 90W                            | 10                          | 2A        | 2          |
| HSI-MP 100W/CL/WDL         | 115W                           | 12                          | 2B        | 2          |
| HSI-MP 100W/CO/WDL         | 115W                           | 12                          | 2A        | 2          |
| HSI-MP 100W/CL/NDL         | 115W                           | 12                          | 2A        | 2          |
| HSI-MP 100W/CO/NDL         | 115W                           | 12                          | 2A        | 2          |
| HSI-MP 150W/CL/WDL         | 170W                           | 20                          | 2B        | 2          |
| HSI-MP 150W/CO/WDL         | 170W                           | 20                          | 2A        | 2          |
| HSI-MP 150W/CL/NDL         | 170W                           | 20                          | 2A        | 2          |
| HSI-MP 150W/CO/NDL         | 170W                           | 20                          | 2A        | 2          |

| Item Description          | Power Consumption inc. ballast | Parallel Capacitor (microF) | CRI Class | Circuit No |
|---------------------------|--------------------------------|-----------------------------|-----------|------------|
| HSI-TD 70W/WDL            | 90W                            | 12                          | 1B        | 2          |
| HSI-TD 70W/NDL            | 90W                            | 12                          | 1B        | 2          |
| HSI-TD 70W/D              | 90W                            | 12                          | 1B        | 2          |
| HSI-TD 150W/WDL           | 170W                           | 20                          | 1B        | 2          |
| HSI-TD 150W/NDL           | 170W                           | 20                          | 1B        | 2          |
| HSI-TD 150W/D             | 170W                           | 20                          | 1B        | 2          |
| HSI-TD 250W/WDL           | 275W                           | 32                          | 1B        | 2          |
| HSI-TD 250W/NDL           | 275W                           | 32                          | 1B        | 2          |
| HSI-TD 250W/D             | 275W                           | 32                          | 1A        | 2          |
| HSI-TD 150W AquaArc       | 170W                           | 20                          | 1B        | 2          |
| HSI-TD250W AquaArc        | 275W                           | 32                          | 1B        | 2          |
| HSI-TD 150W CoralArc      | 170W                           | 20                          | 1B        | 2          |
| HSI-TD 250W CoralArc      | 275W                           | 32                          | 1B        | 2          |
| HSI-T 70W/WDL             | 90W                            | 12                          | 1B        | 2          |
| HSI-T 70W/NDL             | 90W                            | 12                          | 1B        | 2          |
| HSI-T 150W/WDL            | 167W                           | 20                          | 1B        | 2          |
| HSI-T 150W/NDL            | 167W                           | 20                          | 1B        | 2          |
| HSI-SX 250W/CL BriteLux   | 290W                           | 40                          | 2B        | 2/3        |
| HSI-SX 250W/CL/P BriteLux | 290W                           | 40                          | 2B        | 2/3        |
| HSI-SX 250W/CO BriteLux   | 290W                           | 40                          | 2A        | 2/3        |
| HSI-SX 250W/CO/P BriteLux | 290W                           | 40                          | 2A        | 2/3        |
| HSI-SX 400W/CL/P BriteLux | 465W                           | 45                          | 2B        | 2/3        |
| HSI-SX 400W/CO/P BriteLux | 465W                           | 45                          | 2A        | 2/3        |
| HSI-TSX 250W BriteLux     | 290W                           | 40                          | 2B        | 2/3        |
| HSI-TSX 400W BriteLux     | 465W                           | 45                          | 2B        | 2/3        |
| HSI-HX 250W/CL            | 265W                           | 18                          | 2B        | 5          |
| HSI-HX 250W/CO            | 265W                           | 18                          | 2A        | 5          |
| HSI-HX 400W/CL            | 420W                           | 28                          | 2B        | 5          |
| HSI-HX 400W/CO            | 420W                           | 28                          | 2A        | 5          |
| HSI-HX 400W/CO/I          | 420W                           | 28                          | 2A        | 5          |
| HSI-THX 250W              | 265W                           | 18                          | 2B        | 5          |
| HSI-THX 400W              | 420W                           | 28                          | 2B        | 5          |
| HSI-T 250W/D              | 275W                           | 32                          | 1A        | 2          |
| HSI-T 400W/D              | 440W                           | 45                          | 1A        | 2          |
| HSI-T 1000W               | 985W                           | 65                          | 2B        | 5          |
| HSI-T 2000W-S/380V        | 2022W                          | 35                          | 2B        | 5          |
| HSI-T 2000W-S/I/380V      | 2022W                          | 35                          | 2B        | 1          |
| HSI-TD 1000W/D            | 1065W                          | 85                          | 1A        | 2          |
| HSI-TD 2000W/D            | 2030W                          | 60                          | 1A        | 2          |

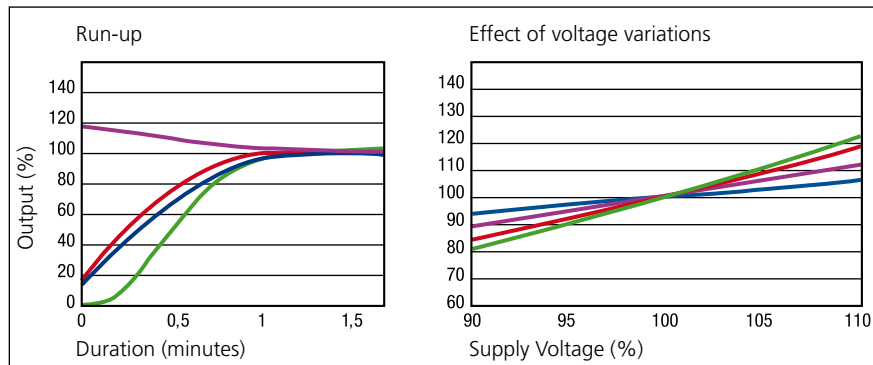
## ELECTRICAL AND PHOTOMETRIC DATA

| Item Description         | Power Consumption inc. ballast | Parallel Capacitor (microF) | CRI Class | Circuit No |
|--------------------------|--------------------------------|-----------------------------|-----------|------------|
| SHP-S 35W                | 42W                            | 6                           | 4         | 2/3        |
| SHP-S 50W                | 60W                            | 8                           | 4         | 2/3        |
| SHP-S 70W                | 82W                            | 10                          | 4         | 2/3        |
| SHP-S 100W               | 115W                           | 12                          | 4         | 2/3        |
| SHP-S 150W               | 170W                           | 20                          | 4         | 2/3        |
| SHP-S 250W               | 285W                           | 40                          | 4         | 2/3        |
| SHP-S 400W               | 450W                           | 45                          | 4         | 2/3        |
| SHP-TS 35W               | 42W                            | 6                           | 4         | 2/3        |
| SHP-TS 50W               | 60W                            | 8                           | 4         | 2/3        |
| SHP-TS 70W               | 82W                            | 10                          | 4         | 2/3        |
| SHP-TS 100W              | 115W                           | 12                          | 4         | 2/3        |
| SHP-TS 150W              | 170W                           | 20                          | 4         | 2/3        |
| SHP-TS 250W              | 285W                           | 40                          | 4         | 2/3        |
| SHP-TS 400W              | 440W                           | 45                          | 4         | 2/3        |
| SHP-TS 600W              | 645W                           | 60                          | 4         | 2          |
| SHP-TS 400W GroLux       | 467W                           | 45                          | 4         | 2          |
| SHP-TS 600W GroLux       | 661W                           | 60                          | 4         | 2          |
| SHP-TS 600W/400V Gr      | 645W                           | 25                          | 4         | 2          |
| SHP-TS 70W Mercury Free  | 82W                            | 10                          | 4         | 2/3        |
| SHP-TS 100W Mercury Free | 115W                           | 12                          | 4         | 2/3        |
| SHP-TS 150W Mercury Free | 173W                           | 20                          | 4         | 2/3        |
| SHP-TS 250W Mercury Free | 288W                           | 40                          | 4         | 2/3        |
| SHP-TS 400W Mercury Free | 448W                           | 45                          | 4         | 2/3        |
| SHP-S 35W TwinArc        | 42W                            | 6                           | 4         | 2/3        |
| SHP-S 50W TwinArc        | 60W                            | 8                           | 4         | 2/3        |
| SHP-S 70W TwinArc        | 82W                            | 10                          | 4         | 2/3        |
| SHP-S 100W TwinArc       | 115W                           | 12                          | 4         | 2/3        |
| SHP-S 150W TwinArc       | 170W                           | 20                          | 4         | 2/3        |
| SHP-S 250W TwinArc       | 285W                           | 40                          | 4         | 2/3        |
| SHP-S 400W TwinArc       | 450W                           | 45                          | 4         | 2/3        |
| SHP-TS 50W TwinArc       | 60W                            | 8                           | 4         | 2/3        |
| SHP-TS 70W TwinArc       | 82W                            | 10                          | 4         | 2/3        |
| SHP-TS 100W TwinArc      | 115W                           | 12                          | 4         | 2/3        |
| SHP-TS 150W TwinArc      | 170W                           | 20                          | 4         | 2/3        |
| SHP-TS 250W TwinArc      | 285W                           | 40                          | 4         | 2/3        |
| SHP-TS 400W TwinArc      | 440W                           | 45                          | 4         | 2/3        |
| SHP-T 1000W SBY          | 1020W                          | 100                         | 4         | 2/3        |
| SHP 50W                  | 60W                            | 8                           | 4         | 2/3        |
| SHP 70W                  | 82W                            | 10                          | 4         | 2/3        |
| SHP 100W                 | 115W                           | 12                          | 4         | 2/3        |
| SHP 150W                 | 170W                           | 20                          | 4         | 2/3        |
| SHP 250W                 | 280W                           | 40                          | 4         | 2/3        |
| SHP 400W                 | 440W                           | 45                          | 4         | 2/3        |

| Item Description | Power Consumption inc. ballast | Parallel Capacitor (microF) | CRI Class | Circuit No |
|------------------|--------------------------------|-----------------------------|-----------|------------|
| SHP-T 50W        | 60W                            | 8                           | 4         | 2/3        |
| SHP-T 70W        | 82W                            | 10                          | 4         | 2/3        |
| SHP-T 150W       | 170W                           | 20                          | 4         | 2/3        |
| SHP-T 250W       | 280W                           | 40                          | 4         | 2/3        |
| SHP-T 400W       | 432W                           | 45                          | 4         | 2/3        |
| SHP-T 1000W      | 1020W                          | 100                         | 4         | 2/3        |
| SHP-TD 70W       | 82W                            | 10                          | 4         | 2/3        |
| SHP-TD 150W      | 82W                            | 10                          | 4         | 2/3        |
| SHP 50W/CO-I     | 60W                            | 8                           | 4         | 1          |
| SHP 70W/CO-I     | 82W                            | 10                          | 4         | 1          |
| SHP 70W/CL-I     | 82W                            | 10                          | 4         | 1          |
| SHX 110W         | 130W                           | 10                          | 4         | 1          |
| SHX 210W         | 243W                           | 18                          | 4         | 1          |
| SHX 350W         | 416W                           | 25                          | 4         | 1          |
| SPX EcoArc 69W   | 82W                            | 8                           | 4         | 1          |
| SPX EcoArc 108W  | 124W                           | 10                          | 4         | 1          |
| SPX EcoArc 190W  | 226W                           | 18                          | 4         | 1          |
| SPX EcoArc 295W  | 363W                           | 25                          | 4         | 1          |
| HSL-SC 50W       | 59W                            | 7                           | 3         | 1          |
| HSL-SC 80W       | 90W                            | 8                           | 3         | 1          |
| HSL-SC 125W      | 140W                           | 10                          | 3         | 1          |
| HSL-SC 250W      | 281W                           | 18                          | 3         | 1          |
| HSL-SC 400W      | 451W                           | 25                          | 3         | 1          |
| HSL-BW 50W       | 59W                            | 7                           | 3         | 1          |
| HSL-BW 80W       | 90W                            | 8                           | 3         | 1          |
| HSL-BW 125W      | 140W                           | 10                          | 3         | 1          |
| HSL-BW 250W      | 281W                           | 18                          | 3         | 1          |
| HSL-BW 400W      | 451W                           | 25                          | 3         | 1          |
| HSL-BW 700W      | 735W                           | 40                          | 3         | 1          |
| HSL-BW 1000W     | 1045W                          | 60                          | 3         | 1          |
| HSB-BW 160W 230V | 160W                           | -                           | 2B        | -          |
| HSB-BW 250W 230V | 250W                           | -                           | 2B        | -          |
| HSB-BW 250W 230V | 250W                           | -                           | 2B        | -          |
| HSB-BW 500W 230V | 500W                           | -                           | 2B        | -          |
| HSB-BW 160W 240V | 160W                           | -                           | 2B        | -          |
| HSB-BW 160W 240V | 160W                           | -                           | 2B        | -          |
| HSB-BW 250W 240V | 250W                           | -                           | 2B        | -          |
| HSB-BW 500W 240V | 500W                           | -                           | 2B        | -          |
| SLP 18W          | 25W                            | 5                           | -         | 3/4        |
| SLP 35W          | 46W                            | 20                          | -         | 3/4        |
| SLP 55W          | 77W                            | 20                          | -         | 3/4        |
| SLP 90W          | 101W                           | 26                          | -         | 3/4        |
| SLP 135W         | 155W                           | 45                          | -         | 3/4        |
| SLP 180W         | 211W                           | 40                          | -         | 3/4        |

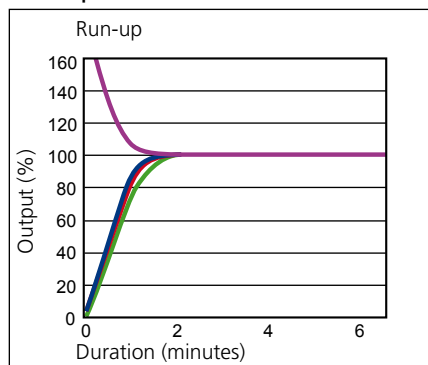
# LAMP PERFORMANCE DURING RUN-UP & THE EFFECT OF MAINS VOLTAGE VARIATIONS

## Ceramic Metal Halide



**Re-start time when hot**  
 TD versions: immediate with appropriate start up system  
 T, TC versions: up to 6 minutes

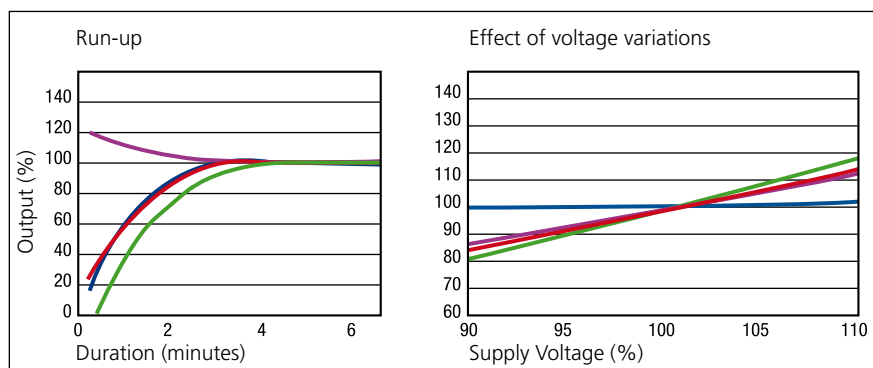
## Britespot



Re-start time when hot  
 3 to 4 minutes

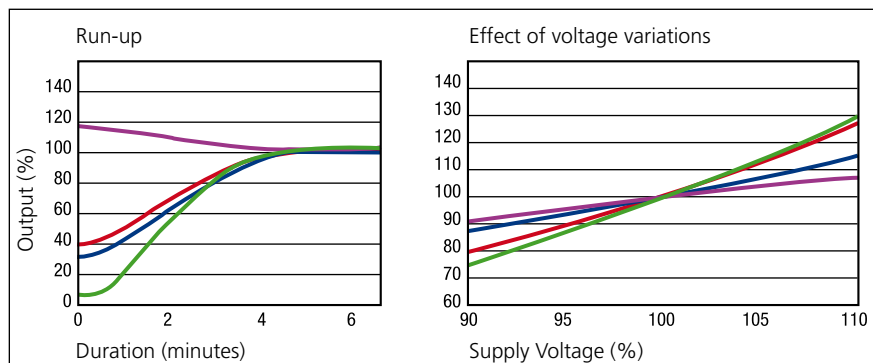
■ Lamp Voltage  
 ■ Lamp Current  
 ■ Lamp Power  
 ■ Luminous Flux

## Quartz Metal Halide



**Re-start time when hot**  
 TD versions: immediate with appropriate start up system  
 Other versions: up to 10 minutes

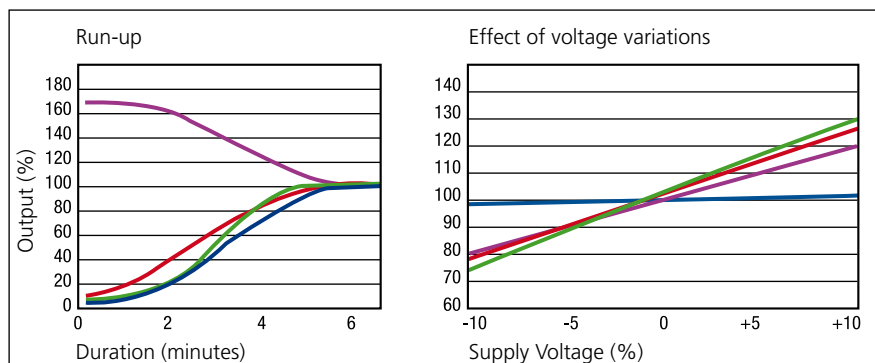
## High Pressure Sodium



**Re-start time when hot**  
 Twinarc, SBY: immediate re-start  
 Standard, Super & MF: up to 1 minute

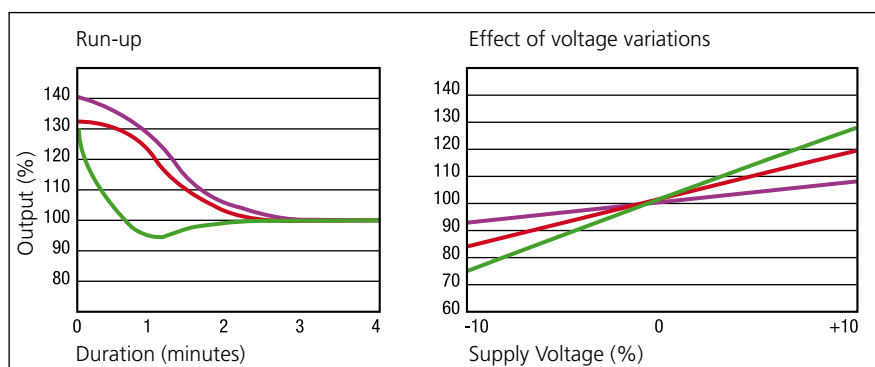
## LAMP PERFORMANCE DURING RUN-UP & THE EFFECT OF MAINS VOLTAGE VARIATIONS

### High Pressure Mercury



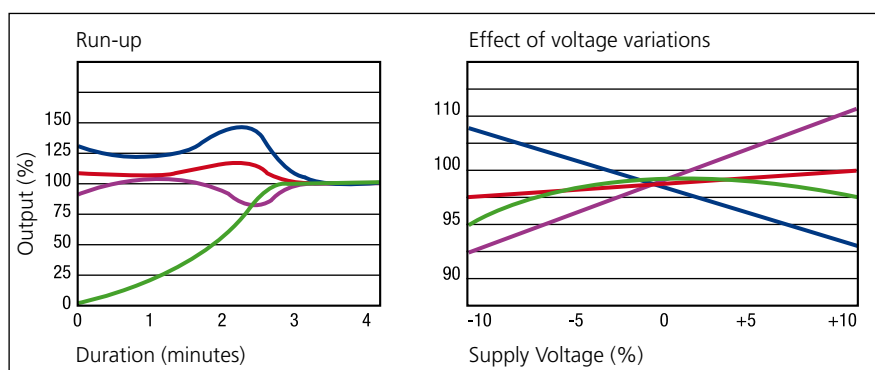
Re-start time when hot  
5 to 10 minutes

### Blended High Pressure Mercury



Re-start time when hot  
5 to 10 minutes

### Low Pressure Sodium

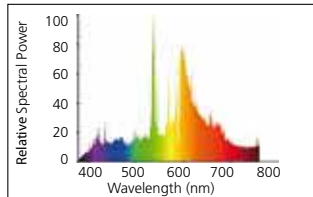


Re-start time when hot  
up to 6 minutes depending on  
interruption time.

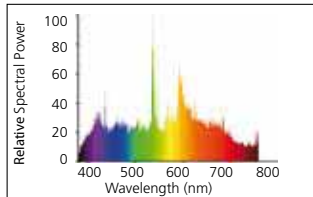
■ Lamp Voltage  
■ Lamp Current  
■ Lamp Power  
■ Luminous Flux

# SPECTRAL POWER DISTRIBUTION

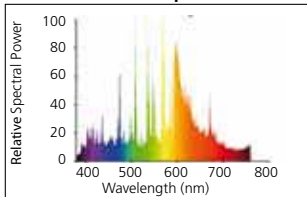
**Ceramic Metal Halide CMI WDL**



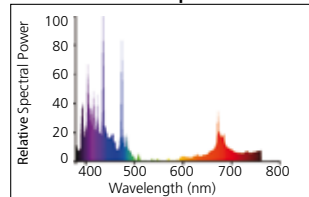
**Ceramic Metal Halide CMI NDL**



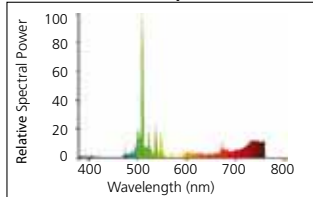
**Metal Halide BriteSpot /WDL**



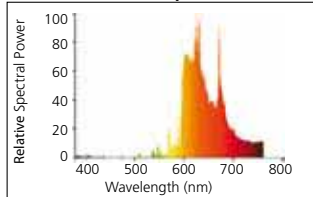
**Metal Halide BriteSpot Blue**



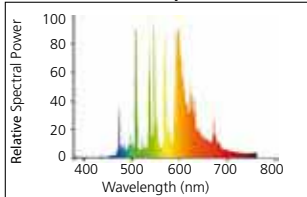
**Metal Halide BriteSpot Green**



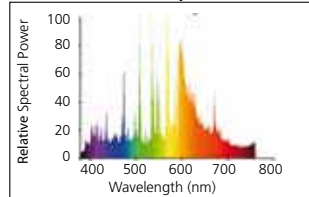
**Metal Halide BriteSpot Red**



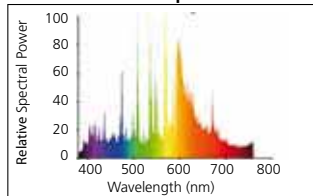
**Metal Halide BriteSpot Yellow**



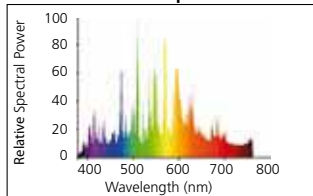
**Metal Halide BriteSpot / WDL**



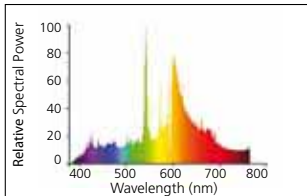
**Metal Halide BriteSpot / WDL**



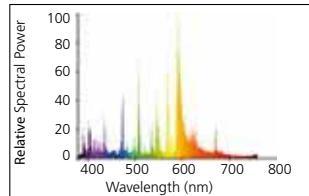
**Metal Halide BriteSpot / NDL**



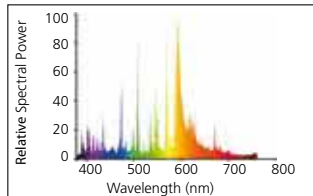
**Ceramic Metal Halide-Urban White**



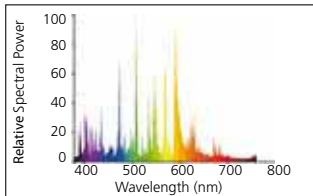
**Metal Halide HSI-MP/WDL/CL**



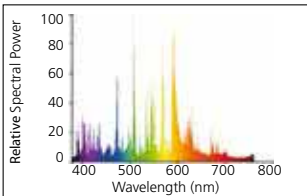
**Metal Halide HSI-MP/WDL/CO**



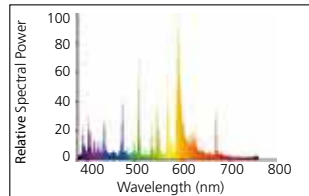
**Metal Halide HSI-MP/NDL/CL**



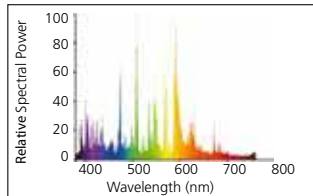
**Metal Halide HSI-MP/NDL/CO**



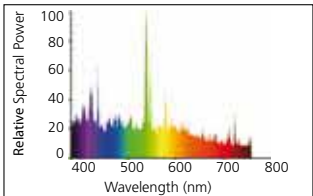
**Metal Halide HSI-TD/WDL**



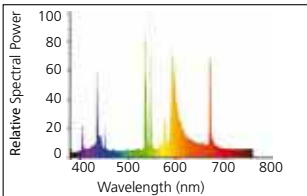
**Metal Halide HSI-TD/NDL**



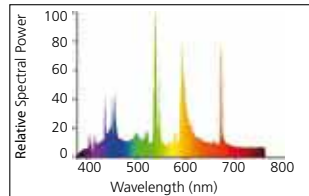
**Metal Halide HSI-TD/D**



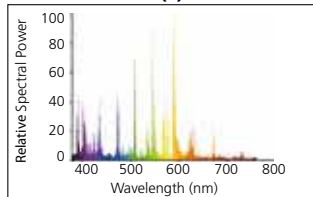
**Metal Halide HSI-T/WDL**



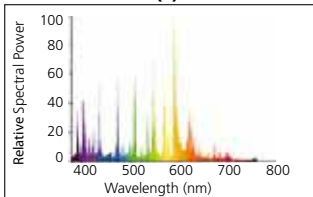
**Metal Halide HSI-T/NDL**



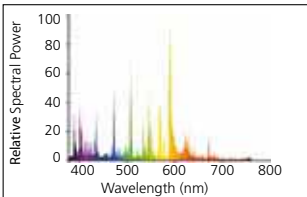
**Metal Halide HSI-(T)SX/CL**



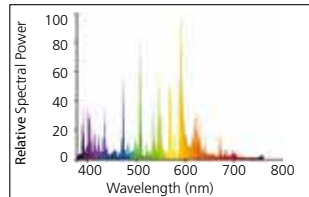
**Metal Halide HSI-(T)SX/CO**



**Metal Halide HSI-T/HX/CL**

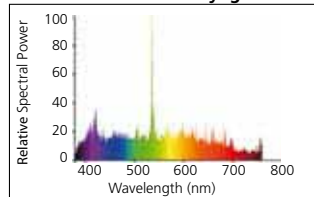


**Metal Halide HSI-HX/CO**

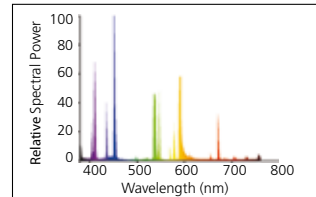


# SPECTRAL POWER DISTRIBUTION

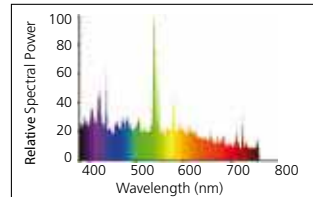
**Metal Halide HSI-T/ Daylight**



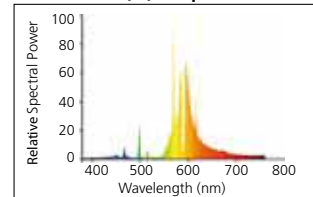
**Metal Halide HSI-T 2000W/NDL**



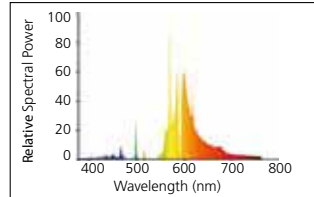
**Metal Halide HSI-TD 2000W/D**



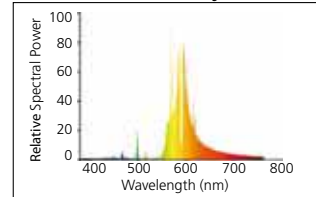
**Sodium SHP-(-)S Super**



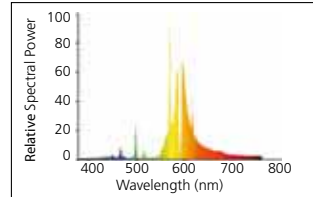
**Sodium SHP-TS Grolux**



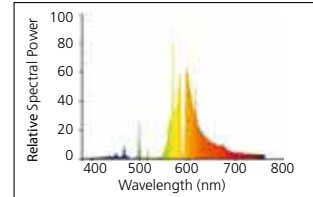
**Sodium SHP-TS Mercury Free**



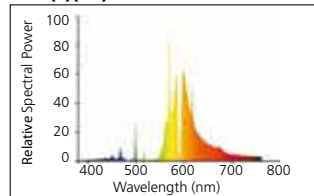
**Sodium SHP-(T)S TwinArc**



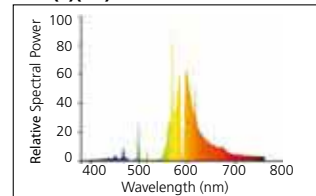
**SHP-(T)(TD) Standard**



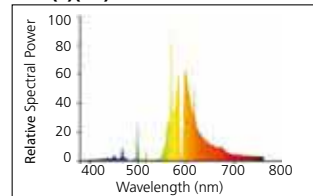
**SHP-(T)(TD) Standard**



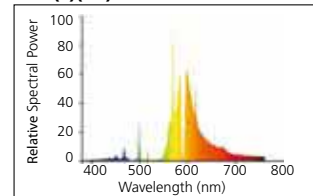
**SHP-(T)(TD) Standard**



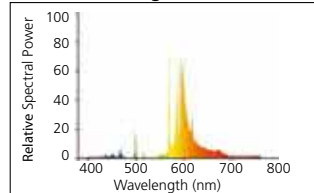
**SHP-(T)(TD) Standard**



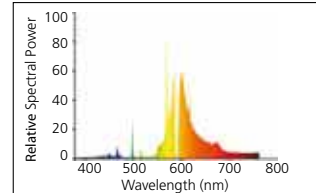
**SHP-(T)(TD) Standard**



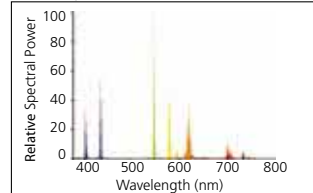
**Sodium SHX Plug-In**



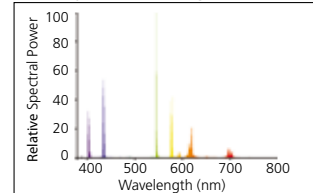
**Sodium SPX EcoArc**



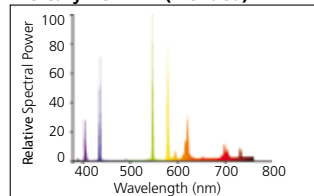
**Mercury HSL-SC (Super Comfort)**



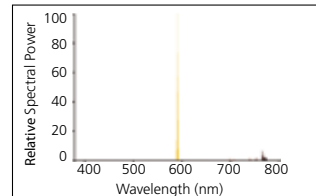
**Mercury HSL-BW (Bright White)**



**Mercury HSB-BW (Blended)**



**Sodium SLP Low Pressurs**





A more extensive special applications catalogue is available from your local Sylvania office (English language version)

# SPECIAL PRODUCTS



| PHOTO OPTIC                |     | 184-193                      |
|----------------------------|-----|------------------------------|
| Hi-Spot E550 GU10 Coloured | 184 | PAR 56 12V Swimming Pool     |
| PAR 38 Coloured            | 185 | PAR 56 12V LED Swimming Pool |
| PAR 36 Low Voltage         | 186 | PAR 64 Mains Voltage         |
| PAR 56 Low Voltage         | 187 | Blacklight Blue Lamps        |
| PAR 56 Mains Voltage       | 188 | T8 Coloured                  |
|                            |     | 193                          |



| AQUARIUM & TERRARIUM |     | 194-208                            |
|----------------------|-----|------------------------------------|
| GroLux T5            | 194 | Reptistar T8                       |
| GroLux T8 MiniLynx   | 195 | Reptistar MiniLynx                 |
| Aquastar T5          | 196 | Reptistar Mixed                    |
| Aquastar T8          | 197 | AquaArc                            |
| Daylightstar T8      | 198 | CoralArc                           |
| Coralstar T5         | 199 | Infrared Reflector                 |
| Coralstar T8         | 200 | Activa-Seasonal Affective disorder |
| Marinestar T5 15000K | 201 | 208                                |



| DISINFECTION & INSECT TRAPPING     |     | 207-213                  |
|------------------------------------|-----|--------------------------|
| Blacklight BL350 Linear & Circline | 209 | Blacklight BL350 & BL368 |
| Blacklight BL350 Compact           | 210 | FEP Toughcoat™           |
| Blacklight BL368                   |     | Germicidal Linear        |
| Linear & Circline                  | 211 | Germicidal Compact       |
| Blacklight BL368 Compact           | 212 | 215                      |

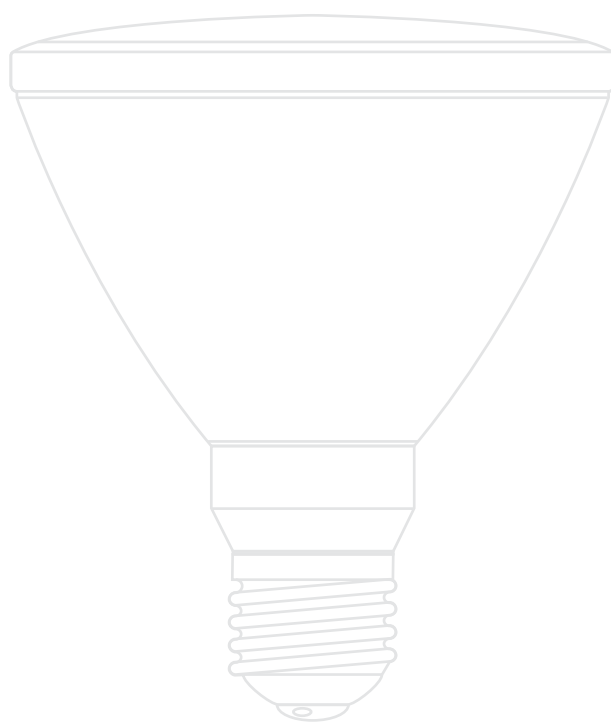


| FOOD DISPLAY |     | 214-215       |
|--------------|-----|---------------|
| Gourmet 175  | 216 | Food Star 176 |
|              |     | 217           |



## GENERAL INTRODUCTION

In addition to offering one of the widest ranges of conventional lamps, Sylvania also offers a comprehensive range of lamps to meet a diverse range of specialist applications. This special product range includes major categories such as Photo-Optic, Petcare and Sun Tanning lamps, as well as a multitude of other more specialized niche products. The key to the success of these products depends very much on satisfying the unique requirements of our Speciality customers. Critical factors in this process are: quality assurance, reliability, highly skilled sales support and a dependable distribution network.





#### 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.



#### AQUARIUM & TERRARIUM

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 GRO-LUX 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.



#### FOOD DISPLAY

With a modified special spectrum, food display lamps are the perfect lighting for butchers, bakeries and supermarkets. In particular, meat products can be displayed very attractively using this form of specialist lamp. Food display lamps have an excellent colour rendering and are direct retrofit for conventional T8 lamps.

## HI-SPOT

### ES50 GU10 COLOURED



#### FEATURES

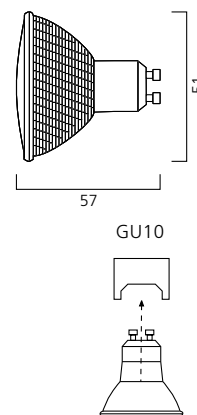
- Transparent lens in real natural coloured glass
- Pure, saturated beam colours without the usual rainbow-effect halo
- Four colours available: red, yellow, green and blue
- Unique, patented, computer designed spiral faceted aluminised reflector
- Available in medium flood version: 25°

#### 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



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

### HI-SPOT ES50 GU10 COLOURED

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



## PAR 38 COLOURED



### FEATURES

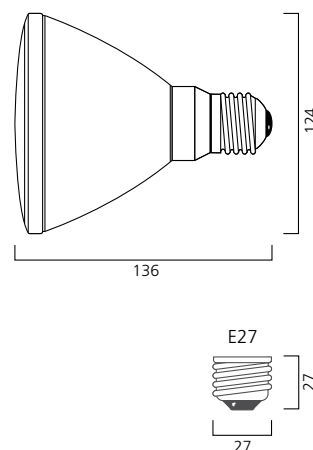
- Parabolic-shaped reflector made from hard glass
- Coloured front lens
- Choice of four colours: Blue, Green Red, and Yellow

### 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 | Volt | Cap | Packing Qty. |
|---------|-----------------------|------|------|-----|--------------|
| 0019650 | 80W/FL30°PAR38 blue   | 80W  | 240V | E27 | 10           |
| 0019651 | 80W/FL30°PAR38 green  | 80W  | 240V | E27 | 10           |
| 0019652 | 80W/FL30°PAR38 red    | 80W  | 240V | E27 | 10           |
| 0019653 | 80W/FL30°PAR38 yellow | 80W  | 240V | E27 | 10           |



## PAR 36

### Low Voltage



#### FEATURES

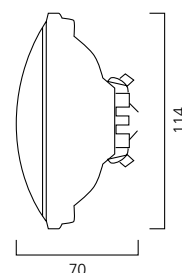
- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Economical light source for effects
- Halogen version delivers maintained beam intensity throughout life

#### 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

| Item description      | ANSI  | LIF | Watt | Voltage | Beam             | Approx. Beam Spread<br>10% Peak CD | Base           |
|-----------------------|-------|-----|------|---------|------------------|------------------------------------|----------------|
| PAR 36 6,4V 30W Disco | H4515 | -   | 30W  | 6.4V    | Very Narrow Spot | 5x5°                               | Screw Terminal |
| PAR 36 12,8V 30W      | H4405 | -   | 30W  | 12.8V   | Very Narrow Spot | 6x5°                               | Screw Terminal |
| PAR 36 12V 50W VNSP   | -     | -   | 50W  | 12V     | Very Narrow Spot | 6x6°                               | Screw Terminal |
| PAR 36 12V 50W NSP    | -     | -   | 50W  | 12V     | Narrow Spot      | 11x10°                             | Screw Terminal |
| PAR 36 12V 50W WFL    | -     | -   | 50W  | 12V     | Wide Flood       | 30x25°                             | Screw Terminal |
| PAR 36 120V 650W      | DWE   | -   | 650W | 120V    | Medium Flood     | 40x30°                             | Screw Terminal |

| Code    | Item description              | Peak<br>Intensity | Watt | Colour<br>Temp | Rated<br>Av. Life | Burning<br>Position | Packing<br>Quantity |
|---------|-------------------------------|-------------------|------|----------------|-------------------|---------------------|---------------------|
| 0060500 | PAR 36 6,4V 30W Disco (H4515) | 55000 cd          | 30W  | 3200K          | 200 hrs           | Any                 | 12                  |
| 9020167 | PAR 36 12,8V 30W (H 4405)     | 50000 cd          | 30W  | 3200K          | 100 hrs           | Any                 | 12                  |
| 0060508 | PAR 36 12V 50W VNSP           | 19000 cd          | 50W  | 3000K          | 2000 hrs          | Any                 | 12                  |
| 0060501 | PAR 36 12V 50W NSP            | 11000 cd          | 50W  | 3000K          | 2000 hrs          | Any                 | 12                  |
| 0060502 | PAR 36 12V 50W NFL            | 1300 cd           | 50W  | 3000K          | 2000 hrs          | Any                 | 12                  |
| 0060503 | PAR 36 120V 650W              | 24000 cd          | 650W | 3200k          | 100 hrs           | H15                 | 12                  |

## PAR 56

### Low Voltage



#### FEATURES

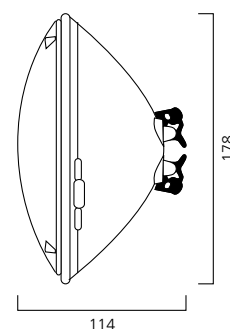
- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures

#### 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

| Item description | ANSI  | LIF | Watt | Voltage | Beam | Approx. Beam Spread<br>10% Peak CD | Base           |
|------------------|-------|-----|------|---------|------|------------------------------------|----------------|
| PAR 56 12V 100W  | H4545 | -   | 100W | 12V     | Spot | 9x5°                               | Screw Terminal |

| Code    | Item description       | Peak<br>Intensity | Watt | Colour<br>Temp | Rated<br>Av. Life | Burning<br>Position | Packing<br>Quantity |
|---------|------------------------|-------------------|------|----------------|-------------------|---------------------|---------------------|
| 0060509 | PAR 56 12V 100W (4545) | 225000 cd         | 100W | 3200K          | 100 hrs           | Any                 | 12                  |



## PAR 56

### Mains Voltage



#### FEATURES

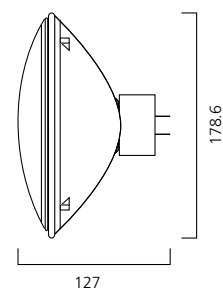
- Pressed glass reflector lamps
- Beam patterns: from very narrow spot through wide angle floods
- Consistency from lamp to lamp
- Instant replaceability without the need to re-focus and re-aim fixtures

#### 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

| Item description     | ANSI | LIF | Watt | Voltage | Beam type    | Approx. Beam Spread |             | Base  |
|----------------------|------|-----|------|---------|--------------|---------------------|-------------|-------|
|                      |      |     |      |         |              | 10% Peak CD         | 50% Peak CD |       |
| PAR 56 300W NSP 240V | -    | -   | 300W | 240V    | Narrow Spot  | 20°x14°             | 10°x8°      | GX16d |
| PAR 56 300W MFL 240V | -    | -   | 300W | 240V    | Medium Flood | 34°x19°             | 23°x11°     | GX16d |
| PAR 56 300W WFL 240V | -    | -   | 300W | 240V    | Wide Flood   | 57°x27°             | 37°x18°     | GX16d |

| Code    | Item description     | Peak Intensity | Watt | Colour Temp | Rated Av. Life | Burning Position | Packing Quantity |
|---------|----------------------|----------------|------|-------------|----------------|------------------|------------------|
| 0060513 | PAR 56 300W NSP 240V | 70000 cd       | 300W | 2750K       | 2000 hrs       | Any              | 12               |
| 0060514 | PAR 56 300W MFL 240V | 30000 cd       | 300W | 2750K       | 2000 hrs       | Any              | 12               |
| 0060515 | PAR 56 300W WFL 240V | 10000 cd       | 300W | 2750K       | 2000 hrs       | Any              | 12               |



# PAR 56

## 12V Swimming Pool



PAR56 12V 300W Swimming Pool

### FEATURES

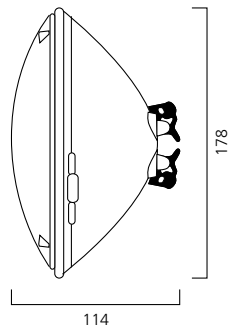
- Low voltage (12V) for safety reasons
- Heat resistant glass
- Sturdily constructed lamp absorbs mechanical shocks
- Wide beam

### APPLICATIONS

- Swimming Pools
- Fountains

### DIRECTIONS FOR USE

- High running current (25A)



## PAR 56 12V SWIMMING POOL

| Item description                 |  | ANSI | LIF | Watt | Voltage | Approx. Beam Spread<br>Hor. x Vert. Degrees | Base  |
|----------------------------------|--|------|-----|------|---------|---------------------------------------------|-------|
| PAR 56 12V 300W<br>Swimming Pool |  | -    | -   | 300W | 12V     | 50 x 25                                     | Screw |

| Code    | Item description                 | Peak<br>Intensity | Watt | Colour<br>Temp | Rated<br>Av. Life | Burning<br>Position | Packing<br>Quantity |
|---------|----------------------------------|-------------------|------|----------------|-------------------|---------------------|---------------------|
| 9061532 | PAR 56 12V 300W<br>Swimming Pool | 12000 cd          | 300W | 2850K          | 1000 hrs          | S45                 | 12                  |



## PAR 56

### 12V LED Swimming Pool



#### FEATURES

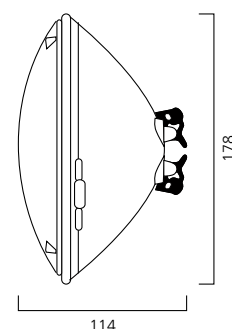
- Choice between RGB or fixed white version
- High power LED retrofit for incandescent PAR lamps
- Produces full spectrum of rich colours or white (multi colours)
- Sylvania patent pending colour control technology
- Simple on/off switching sets colour changing or fixed mode (can be achieved by using 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



Remote Control



Receiver

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.

### PAR 56 12V LED SWIMMING POOL

| Code    | Item description                | Watt | Voltage | Current | Peak Intensity | Beam Angle ° | Bulb  | Base       | Packing Qty. |
|---------|---------------------------------|------|---------|---------|----------------|--------------|-------|------------|--------------|
| 0060526 | PAR 56 LED POOL RGB+multicolour | 25W  | 12V     | 1,15A   | 1000 cd        | 25           | PAR56 | Screw Lugs | 6            |
| 0060524 | PAR 56 LED POOL White colour    | 25W  | 12V     | 1,15A   | 1000 cd        | 25           | PAR56 | Screw Lugs | 6            |

#### Optional remote control Unit :

|         |                           |           |             |         |         |   |   |                 |   |
|---------|---------------------------|-----------|-------------|---------|---------|---|---|-----------------|---|
| 0060523 | PAR 56 LED Receiver       | max. 250W | 110/250     | max. 1A | 50/60Hz | - | - | Screw Terminals | 6 |
| 0060522 | PAR 56 LED Remote Control | -         | 12V Battery | -       | -       | - | - | -               | 6 |



Red



Green



Multi colour/white

## PAR 64

### Mains Voltage

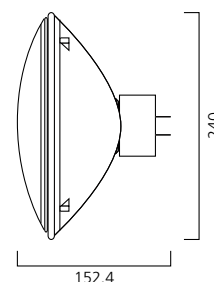


#### FEATURES

- 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

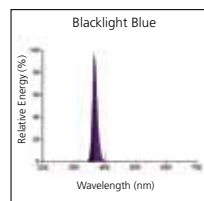


## PAR 64 MAINS VOLTAGE

| Item description            | ANSI | LIF  | Watt  | Voltage | Beam type        | Approx. Beam Spread |             | Base  |
|-----------------------------|------|------|-------|---------|------------------|---------------------|-------------|-------|
|                             |      |      |       |         |                  | 10% Peak CD         | 50% Peak CD |       |
| PAR 64 CP86 240V 500W VNSP  | -    | CP86 | 500W  | 240V    | Very Narrow Spot | 16x13               | 10x7        | Gx16d |
| PAR 64 CP87 240V 500W NSP   | -    | CP87 | 500W  | 240V    | Narrow Spot      | 19x16               | 11x9        | Gx16d |
| PAR 64 CP88 240V 500W MFL   | -    | CP88 | 500W  | 240V    | Medium Flood     | 32x19               | 21x10       | Gx16d |
| PAR 64 CP60 240V 1000W NSP  | EXC  | CP60 | 1000W | 240V    | Narrow Spot      | 20x17               | 12x6        | Gx16d |
| PAR 64 CP61 240V 1000W SP   | EXD  | CP61 | 1000W | 240V    | Spot             | 23x20               | 14x7        | Gx16d |
| PAR 64 CP62 240V 1000W MFL  | EXE  | CP62 | 1000W | 240V    | Medium Flood     | 39x24               | 28x12       | Gx16d |
| PAR 64 CP95 240V 1000W XWFL | EXG  | CP95 | 1000W | 240V    | Extra Wide Flood | 125x95              | 70x70       | Gx16d |

| Code    | Item description           | Peak Intensity | Watt  | Colour Temp | Rated Av. Life | Burning Position | Packing Quantity |
|---------|----------------------------|----------------|-------|-------------|----------------|------------------|------------------|
| 9061146 | PAR 64 CP86 240V 500W VNSP | 240000 cd      | 500W  | 3200K       | 300 hrs        | Any              | 6                |
| 9061147 | PAR 64 CP87 240V 500W NSP  | 140000 cd      | 500W  | 3200K       | 300 hrs        | Any              | 6                |
| 9061148 | PAR 64 CP88 240V 500W MFL  | 65000 cd       | 500W  | 3200K       | 300 hrs        | Any              | 6                |
| 9061109 | PAR 64 CP60 240V 1000W NSP | 400000 cd      | 1000W | 3200K       | 300 hrs        | Any              | 6                |
| 9061127 | PAR 64 CP61 240V 1000W SP  | 275000 cd      | 1000W | 3200K       | 300 hrs        | Any              | 6                |
| 9061128 | PAR 64 CP62 240V 1000W MFL | 130000 cd      | 1000W | 3200K       | 300 hrs        | Any              | 6                |
| 9061129 | PAR 64 CP95 240V 1000W     | 15000 cd       | 1000W | 3200K       | 300 hrs        | Any              | 6                |

## BLACKLIGHT BLUE LAMPS



### FEATURES

- The lamps efficiently emit near ultraviolet radiation at 315nm-400nm with strong photochemical and fluorescent effects
- The special deep blue filter glass absorbs visible rays and transmits near (UV-A) ultraviolet rays only
- Shape, electrical characteristics and lighting circuits similar to general fluorescent lamps

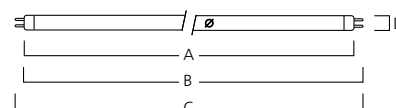


Fig. 1

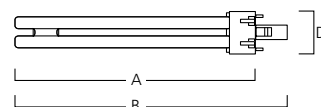


Fig. 2

### APPLICATIONS

- Special effects
- Counterfeit detection in philately, bank notes, papers, etc.
- Leak and crack detection
- Excitation of fluorescent paints in dark rooms
- Revealing fluorescence of drawings on textiles
- Geological investigation of stones and rocks

Blacklight Blue lamps differ from standard fluorescent lamps only in the type and composition of phosphor used. The bulb is made of special dark-blue filter glass that absorbs practically all of the visible light, yet freely transmits the ultraviolet radiation. Fixture requirements are simple since the lamp is a completely self-contained blacklight unit.

## BLACKLIGHT BLUE LAMPS

| Item description | Watt | Voltage | Current | Spectral Peak nm | Cap | UV-A Irradiance at 1 meter $\mu\text{W}/\text{cm}^2$ | Life     |
|------------------|------|---------|---------|------------------|-----|------------------------------------------------------|----------|
| F4 T5 BLB        | 4W   | 29V     | 0.170A  | 365              | G5  | $\geq 4.5$                                           | 5000 hrs |
| F6 T5 BLB        | 6W   | 42V     | 0.160A  | 365              | G5  | $\geq 7$                                             | 5000 hrs |
| F8 T5 BLB        | 8W   | 56V     | 0.145A  | 365              | G5  | $\geq 10$                                            | 5000 hrs |
| F15 T8 BLB       | 15W  | 55V     | 0.310A  | 365              | G13 | $\geq 22.5$                                          | 7000 hrs |
| F18 T8 BLB       | 18W  | 57V     | 0.370A  | 365              | G13 | $\geq 34.5$                                          | 7000 hrs |
| F30 T8 BLB       | 30W  | 96V     | 0.365A  | 365              | G13 | $\geq 36.5$                                          | 8000 hrs |
| F36 T8 BLB       | 36W  | 103V    | 0.430A  | 365              | G13 | $\geq 39$                                            | 8000 hrs |
| F20 T12 BLB      | 20W  | 57V     | 0.370A  | 350              | G13 | $\geq 15.5$                                          | 7000 hrs |
| F40 T12 BLB      | 40W  | 103V    | 0.420A  | 350              | G13 | $\geq 17.5$                                          | 8000 hrs |
| LYNX-S 9W BLB    | 9W   | 60V     | 0.170A  | 365              | G23 | $\geq 8.5$                                           | 8000 hrs |
| LYNX-S 11W BLB   | 11W  | 90V     | 0.155A  | 365              | G23 | $\geq 17.5$                                          | 8000 hrs |

| Code    | Item description | Dimensions |         |       |       | Figure Nr. | Packing Quantity |
|---------|------------------|------------|---------|-------|-------|------------|------------------|
|         |                  | A (mm)     | L B(mm) | C(mm) | D(mm) |            |                  |
| 0000008 | F4 T5 BLB        | 136        | 143     | 150   | 16    | 1          | 50               |
| 0000018 | F6 T5 BLB        | 212        | 219     | 226   | 16    | 1          | 50               |
| 0000024 | F8 T5 BLB        | 288        | 295     | 303   | 16    | 1          | 50               |
| 0000077 | F15 T8 BLB       | 437        | 445     | 452   | 26    | 1          | 100              |
| 0000698 | F18 T8 BLB       | 590        | 597     | 604   | 26    | 1          | 100              |
| 0000158 | F30 T8 BLB       | 895        | 902     | 909   | 26    | 1          | 25               |
| 0000699 | F36 T8 BLB       | 1199       | 1207    | 1214  | 26    | 1          | 25               |
| 9000358 | F20 T12 BLB      | 590        | 599     | 604   | 41    | 1          | 25               |
| 9000186 | F40 T12 BLB      | 1199       | 1207    | 1214  | 41    | 1          | 25               |
| 0025043 | LYNX-S 9W BLB    | 145        | 167     | 28    | 12    | 2          | 200              |
| 0025042 | LYNX-S 11W BLB   | 215        | 237     | 28    | 12    | 2          | 200              |

## T8 COLOURED



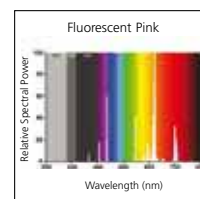
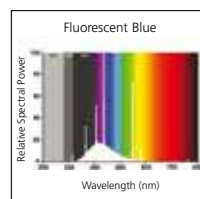
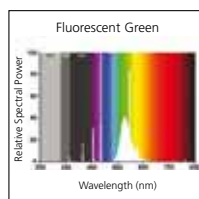
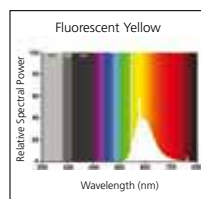
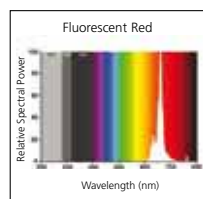
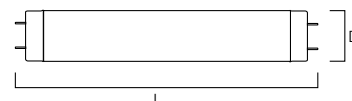
### FEATURES

- 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

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



## T8 COLOURED

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



# GROLUX

## T5



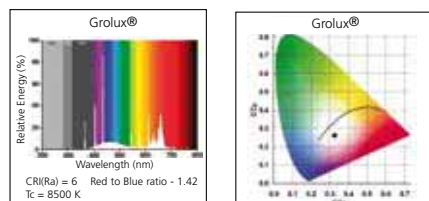
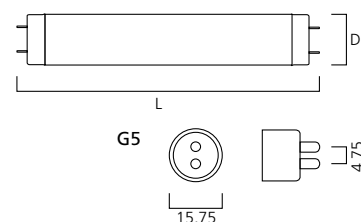
### FEATURES

- 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 / 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

| T5 standard | 8W  | 24W | 39W | 54W  | 80W  |      |
|-------------|-----|-----|-----|------|------|------|
| L           | 288 | 549 | 849 | 1149 | 1449 |      |
| D           | 16  | 16  | 16  | 16   | 16   |      |
| T5 / 8      | 24W | 28W | 35W | 45W  | 54W  | 54W  |
| L           | 438 | 590 | 742 | 895  | 1047 | 1200 |
| D           | 16  | 16  | 16  | 16   | 16   | 16   |



## GROLUX T5

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Item description    | Comparable<br>Wattage in T8 | Watt | Colour | Cap | Diameter |
|--------------------------------|----------------------------|---------------------|-----------------------------|------|--------|-----|----------|
| 0000026                        | -                          | F8W/GRO             | -                           | 8W   | GroLux | G5  | T5       |
| 0002740                        | 0000728                    | FHO24W/GRO          | -                           | 24W  | GroLux | G5  | T5       |
| 0002743                        | 0000729                    | FHO39W/GRO          | -                           | 39W  | GroLux | G5  | T5       |
| 0002746                        | 0000730                    | FHO54W/GRO          | -                           | 54W  | GroLux | G5  | T5       |
| 0002749                        | -                          | FHO80W/GRO          | -                           | 80W  | GroLux | G5  | T5       |
| -                              | 0002821                    | F24W T5 / 8 Gro-Lux | 15                          | 24W  | GroLux | G5  | T5       |
| -                              | 0002823                    | F28W T5 / 8 Gro-Lux | 18                          | 28W  | GroLux | G5  | T5       |
| -                              | 0002825                    | F35W T5 / 8 Gro-Lux | 25                          | 35W  | GroLux | G5  | T5       |
| -                              | 0002827                    | F45W T5 / 8 Gro-Lux | 30                          | 45W  | GroLux | G5  | T5       |
| -                              | 0002829                    | F54W T5 / 8 Gro-Lux | 38                          | 54W  | GroLux | G5  | T5       |
| -                              | 0002831                    | F54W T5 / 8 Gro-Lux | 36                          | 54W  | GroLux | G5  | T5       |

Packaging Note: The sleeve pictured is for retail sales.



# GROLUX

## T8/MiniLynx

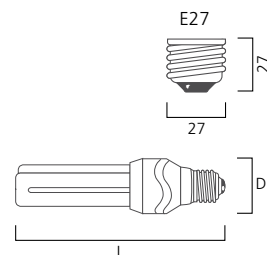
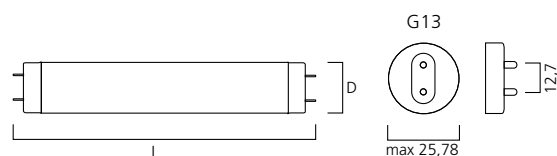


### FEATURES

- 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

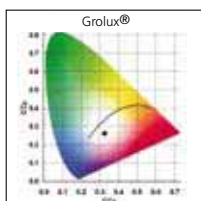
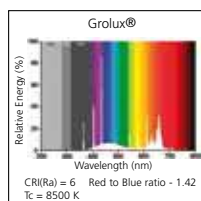
### APPLICATIONS

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



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

| Minilyn | 18W |
|---------|-----|
| L       | 178 |
| D       | 38  |



## GROLUX T8/MINILYNX

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Retail Pack<br>Qty. per 20 | Item description | Watt | Colour  | Cap | Diameter |
|--------------------------------|----------------------------|----------------------------|------------------|------|---------|-----|----------|
| 0000043                        | 0000707                    | -                          | F14W/GRO         | 14W  | Gro-Lux | G13 | T8       |
| 0000069                        | 0000708                    | -                          | F15W/GRO         | 15W  | Gro-Lux | G13 | T8       |
| 0001523                        | 0000709                    | -                          | F18W/GRO         | 18W  | Gro-Lux | G13 | T8       |
| 0001679                        | 0000710                    | -                          | F25W/30"/GRO     | 25W  | Gro-Lux | G13 | T8       |
| 0000150                        | 0000711                    | -                          | F30W/GRO         | 30W  | Gro-Lux | G13 | T8       |
| 0001524                        | 0000712                    | -                          | F36W/GRO         | 36W  | Gro-Lux | G13 | T8       |
| 0002213                        | 0000713                    | -                          | F38W/GRO         | 38W  | Gro-Lux | G13 | T8       |
| 0001525                        | 0000714                    | -                          | F58W/GRO         | 58W  | Gro-Lux | G13 | T8       |
| -                              | -                          | 0026484                    | Minilyn 18W/GRO  | 18W  | Gro-Lux | E27 | -        |

Packaging Note: The sleeve pictured is for retail sales.



# AQUASTAR

## T5



### 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 / 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

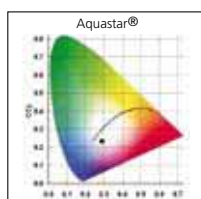
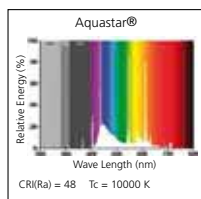
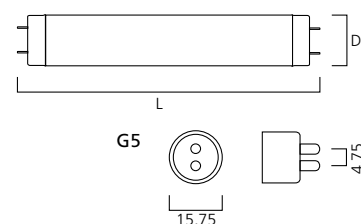
### APPLICATIONS

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

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

| T5 / 8 | 24W | 28W | 35W | 45W | 54W  | 54W  |
|--------|-----|-----|-----|-----|------|------|
| L      | 438 | 590 | 742 | 895 | 1047 | 1200 |
| D      | 16  | 16  | 16  | 16  | 16   | 16   |



## AQUASTAR T5

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Item description     | Comparable<br>Wattage in T8 | Watt | Colour<br>Temp | Light<br>Output | Cap | Diameter |
|--------------------------------|----------------------------|----------------------|-----------------------------|------|----------------|-----------------|-----|----------|
| <b>0002741</b>                 | <b>0002752</b>             | FHO24W/Aquastar      | -                           | 24W  | 10000K         | 1120 lm         | G5  | T5       |
| <b>0002744</b>                 | <b>0002753</b>             | FHO39W/Aquastar      | -                           | 39W  | 10000K         | 1960 lm         | G5  | T5       |
| <b>0002747</b>                 | <b>0002754</b>             | FHO54W/Aquastar      | -                           | 54W  | 10000K         | 2800 lm         | G5  | T5       |
| <b>0002750</b>                 | -                          | FHO80W/Aquastar      | -                           | 80W  | 10000K         | 3500 lm         | G5  | T5       |
| -                              | <b>0002820</b>             | F24W T5 / 8 Aquastar | 15                          | 24W  | 10000K         | 900 lm          | G5  | T5       |
| -                              | <b>0002822</b>             | F28W T5 / 8 Aquastar | 18                          | 28W  | 10000K         | 1200 lm         | G5  | T5       |
| -                              | <b>0002824</b>             | F35W T5 / 8 Aquastar | 25                          | 35W  | 10000K         | 1700 lm         | G5  | T5       |
| -                              | <b>0002826</b>             | F45W T5 / 8 Aquastar | 30                          | 45W  | 10000K         | 2100 lm         | G5  | T5       |
| -                              | <b>0002828</b>             | F54W T5 / 8 Aquastar | 38                          | 54W  | 10000K         | 2500 lm         | G5  | T5       |
| -                              | <b>0002830</b>             | F54W T5 / 8 Aquastar | 36                          | 54W  | 10000K         | 2900 lm         | G5  | T5       |

Packaging Note: The sleeve pictured is for retail sales.



# AQUASTAR

## T8

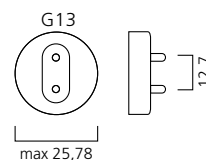
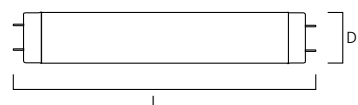


### FEATURES

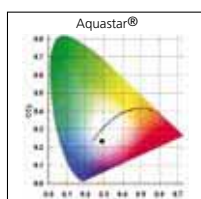
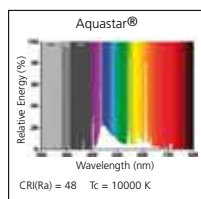
- Light colour: 10000 Kelvin (simulating the tropical light spectrum)
- Promotes the growth of coral and aquatic plants through natural red and blue sections of the light spectrum
- Excellent lighting performance

### APPLICATIONS

- For all biological organisms in fresh and marine water aquariums



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



## AQUASTAR T8

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

Packaging Note: The sleeve pictured is for retail sales.



# DAYLIGHTSTAR

## T8

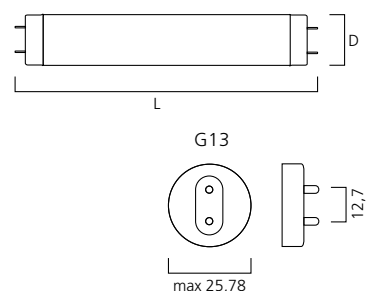


### FEATURES

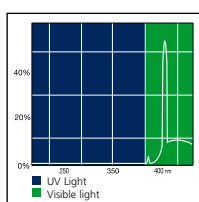
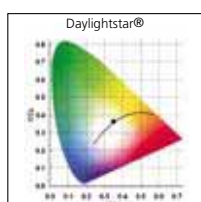
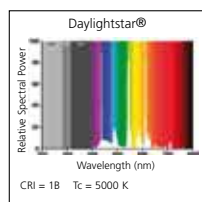
- Reduces algae growth through a special UV-STOP protective sleeve
- Allows fish and plants to be seen in their true colours (high colour rendition)
- 5000K triphosphor lamp with a daylight character
- High colour rendition
- Long life

### APPLICATIONS

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



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



### DAYLIGHTSTAR T8

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Item description  | Watt | Colour       | Cap | Diameter |
|--------------------------------|----------------------------|-------------------|------|--------------|-----|----------|
| -                              | <b>0000715</b>             | F15W/Daylightstar | 15W  | Daylightstar | G13 | T8       |
| -                              | <b>0000716</b>             | F18W/Daylightstar | 18W  | Daylightstar | G13 | T8       |
| -                              | <b>0000717</b>             | F30W/Daylightstar | 30W  | Daylightstar | G13 | T8       |
| -                              | <b>0000718</b>             | F36W/Daylightstar | 36W  | Daylightstar | G13 | T8       |

Packaging Note: The sleeve pictured is for retail sales.



# CORALSTAR

## T5



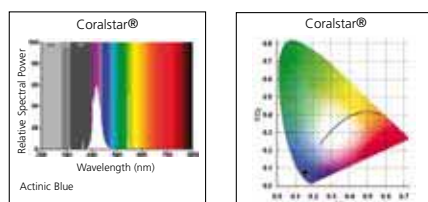
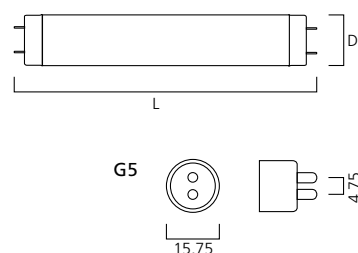
### FEATURES

- 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 **T5 / 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

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

| <b>T5 standard</b> | <b>24W</b> | <b>39W</b> | <b>54W</b> | <b>80W</b> |
|--------------------|------------|------------|------------|------------|
| L                  | 549        | 849        | 1149       | 1449       |
| D                  | 16         | 16         | 16         | 16         |
| <b>T5 / 8</b>      | <b>24W</b> | <b>45W</b> | <b>54W</b> |            |
| L                  | 590        | 895        | 1200       |            |
| D                  | 16         | 16         | 16         |            |



## CORALSTAR T5

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Item description      | Comparable<br>Wattage in T8 | Watt | Colour  | Cap | Diameter |
|--------------------------------|----------------------------|-----------------------|-----------------------------|------|---------|-----|----------|
| <b>0002742</b>                 | -                          | FHO24W/Coralstar      | -                           | 24W  | Actinic | G5  | T5       |
| <b>0002745</b>                 | <b>0002755</b>             | FHO39W/Coralstar      | -                           | 39W  | Actinic | G5  | T5       |
| <b>0002748</b>                 | <b>0002756</b>             | FHO54W/Coralstar      | -                           | 54W  | Actinic | G5  | T5       |
| <b>0002751</b>                 | -                          | FHO80W/Coralstar      | -                           | 80W  | Actinic | G5  | T5       |
| -                              | <b>0002757</b>             | F28W T5 / 8 Coralstar | 18                          | 28W  | Actinic | G5  | T5       |
| -                              | <b>0002758</b>             | F45W T5 / 8 Coralstar | 30                          | 45W  | Actinic | G5  | T5       |
| -                              | <b>0002759</b>             | F54W T5 / 8 Coralstar | 36                          | 54W  | Actinic | G5  | T5       |

Packaging Note: The sleeve pictured is for retail sales.



# CORALSTAR

## T8

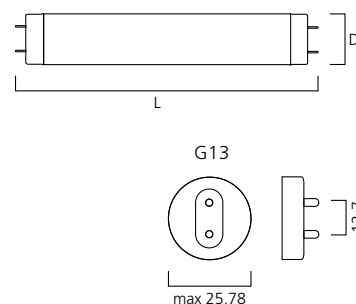


### FEATURES

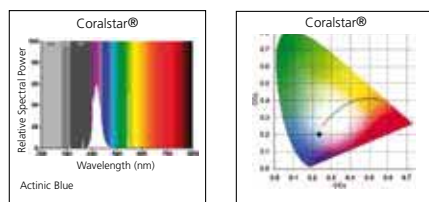
- Reproduces light conditions found at coral reefs through actinic blue light
- Promotes the growth of coral and invertebrates by supporting the growth of zooxanthellae
- See coral in its true colour(s)

### APPLICATIONS

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



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



## CORALSTAR T8

| Industrial Pack<br>Qty. per 25 | Retail Pack<br>Qty. per 10 | Item description | Watt | Colour  | Cap | Diameter |
|--------------------------------|----------------------------|------------------|------|---------|-----|----------|
| -                              | <b>0000719</b>             | F18W/Coralstar   | 18W  | Actinic | G13 | T8       |
| -                              | <b>0000725</b>             | F30W/Coralstar   | 30W  | Actinic | G13 | T8       |
| -                              | <b>0000726</b>             | F36W/Coralstar   | 36W  | Actinic | G13 | T8       |

Packaging Note: The sleeve pictured is for retail sales.



# MARINESTAR

## T5 15000K

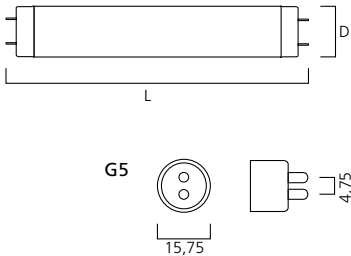


### FEATURES

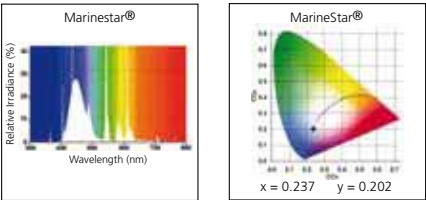
- Ideal lamp for marine lighting.
- High colour rendering of the marine aquatic environment
- High colour temperature: 15000K
- Reproduces light conditions found at coral reefs through radiation in the 420-510 nm wavelength.
- Promotes the growth of coral and invertebrates by supporting the growth of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

### APPLICATIONS

- Lighting of marine water aquaria



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



## MARINESTAR T5 1500K

| Code    | Item description  | Watt | Colour | Cap | Diameter |
|---------|-------------------|------|--------|-----|----------|
| 0002720 | FHO24W/Marinestar | 24W  | 15000K | G5  | T5       |
| 0002721 | FHO39W/Marinestar | 39W  | 15000K | G5  | T5       |
| 0002722 | FHO54W/Marinestar | 54W  | 15000K | G5  | T5       |
| 0002723 | FHO80W/Marinestar | 80W  | 15000K | G5  | T5       |



# REPTISTAR

## T8



universal



For reptiles only

### FEATURES

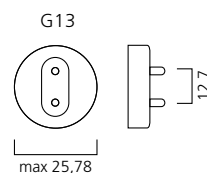
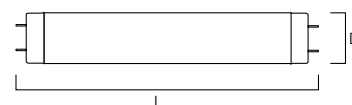
- Promotes vitamin D3 production which aids good health, growth and the general well-being of reptiles in terrariums through a high content of UVB (up to 5%) and UVA (up to 30%)
- This full spectrum (6500 K) lamp improves the natural appearance of reptiles
- Shows reptiles in their true colours

### APPLICATIONS

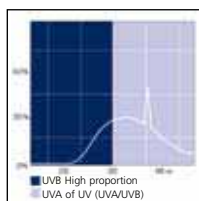
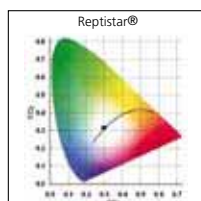
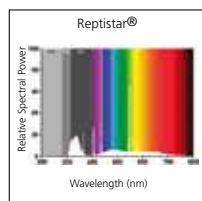
- For the artificial lighting of reptiles in terrariums

### DIRECTIONS FOR USE

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



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



### REPTISTAR T8

| Code    | Item description | Watt | Colour    | Cap | Light output | Ordering Quantity | Diameter |
|---------|------------------|------|-----------|-----|--------------|-------------------|----------|
| 0000731 | F15W/Reptistar   | 15W  | Reptistar | G13 | 300 lm       | 10                | T8       |
| 0000732 | F18W/Reptistar   | 18W  | Reptistar | G13 | 450 lm       | 10                | T8       |
| 0000733 | F30W/Reptistar   | 30W  | Reptistar | G13 | 700 lm       | 10                | T8       |
| 0000734 | F36W/Reptistar   | 36W  | Reptistar | G13 | 1000 lm      | 10                | T8       |

Packaging Note: The sleeve pictured is for retail sales.



# REPTISTAR

## MiniLynx



### FEATURES

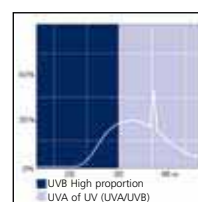
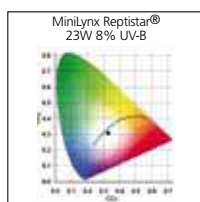
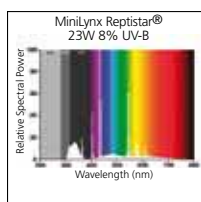
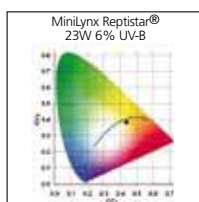
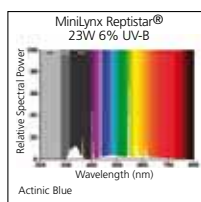
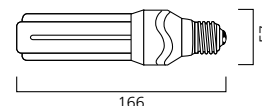
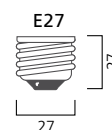
- High UV-B radiation. UV-B peak intensity @ 100mm: 160  $\mu\text{W}/\text{cm}^2$  for 6% version and 200  $\mu\text{W}/\text{cm}^2$  for the 8% version
- Works on the mains (220-240V) without any special supplementary ballast
- Easy handling: E27 cap
- Effective lamp life: 4000 hrs\*

### APPLICATIONS

- Provides the necessary UV-B radiation for reptiles in a terrarium in order to keep them healthy
- Two versions (6% and 8%) in order to adapt to the type of reptile
- Also used in certain industrial applications

### DIRECTIONS FOR USE

- This lamp emits UV-radiation. Avoid exposure to skin and eyes
- Not suitable for household room illumination
- Burning position: unrestricted
- Lamps comply with EN 60968 (Safety Requirement) and EN 60969 (Performance Requirements) and CE regulations
- Effective life: time to 50% of 100 hours UVB output



## REPTISTAR MINILYNX

| Code    | Item description              | Watt | Mains Voltage | Current | Cap | Colour Temp | Luminous Flux | CRI Class | Spectral Power UV-A At 100mm in $\mu\text{W}/\text{cm}^2$ | Spectral Power UV-B At 100mm in $\mu\text{W}/\text{cm}^2$ | Packing Qty. |
|---------|-------------------------------|------|---------------|---------|-----|-------------|---------------|-----------|-----------------------------------------------------------|-----------------------------------------------------------|--------------|
| 0027275 | MiniLynx 23W Reptistar 6%UV-B | 23W  | 220-240V      | 57mA    | E27 | 6500K       | 600 lm        | 1b        | 610                                                       | 160                                                       | 10           |
| 0027276 | MiniLynx 23W Reptistar 8%UV-B | 23W  | 220-240V      | 57mA    | E27 | 6500k       | 540 lm        | 1b        | 750                                                       | 200                                                       | 10           |



# REPTISTAR

## Mixed



### FEATURES

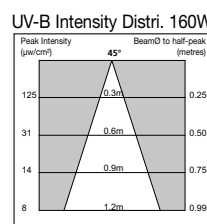
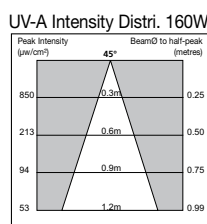
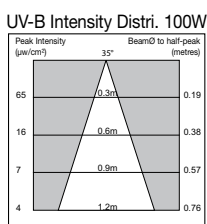
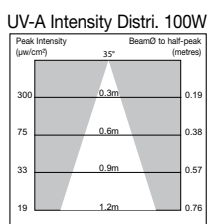
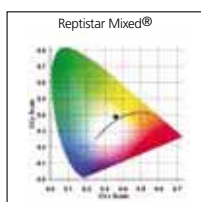
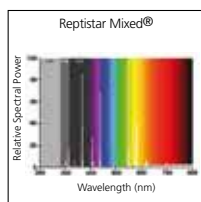
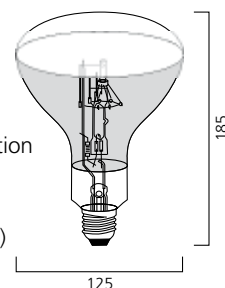
- Tungsten filament provides infra-red radiation
- Mercury discharge provides ultra-violet radiation
- Powerful UV-B generation but without dangerous UV-C output
- Optimal beam angle of 35-45° for maximum utilisation of the radiation
- Self-ballasted design operates directly on the mains
- Easy handling: E27 screw cap
- Pleasant colour temperature of 4000K (100W) and 4200K (160W)

### APPLICATIONS

- Provides the necessary radiation for reptiles and birds in captivity
  - UV-B: Production of Vitamin D3 to maintain healthy skin and bones
  - Infra Red: Provides the warmth which cold-blooded animals are used to in nature
- Horticulture
- Photochemical scientific

### DIRECTIONS FOR USE

- Burning position: VBU ± 30°
- Do not stay in the close vicinity of a burning lamp for prolonged periods.
- Protect operating lamp from splashes and liquids.
- Lamps must not be used for personal tanning applications
- Not suitable for household room illumination

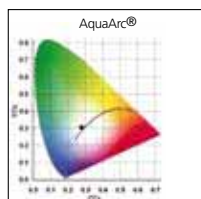
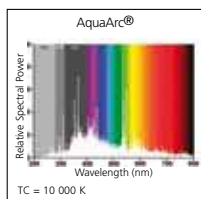
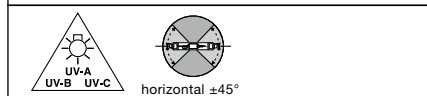
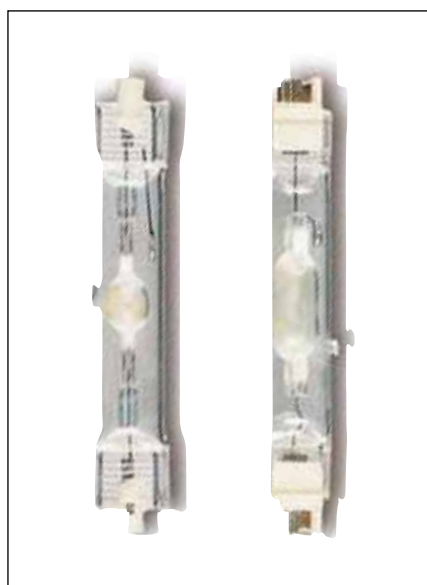


## REPTISTAR MIXED

| Code    | Item description      | Watt | Operating Voltage | Current | Cap | Colour Temp | Beam Angle | Peak Intensity | UV-B Peak Intensity At 30cm $\mu\text{W}/\text{cm}^2$ | Rated Average Life | Packing Qty. |
|---------|-----------------------|------|-------------------|---------|-----|-------------|------------|----------------|-------------------------------------------------------|--------------------|--------------|
| 0020421 | HSB-R Reptistar Mixed | 100W | 225-235V          | 0,48A   | E27 | 4000K       | 35°        | 600 cd         | 65                                                    | 6000 hrs           | 6            |
| 0020422 | HSB-R Reptistar Mixed | 160W | 225-235V          | 0,77A   | E27 | 4200K       | 45°        | 900 cd         | 125                                                   | 6000 hrs           | 6            |



# AQUA ARC



## FEATURES

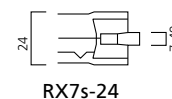
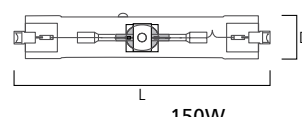
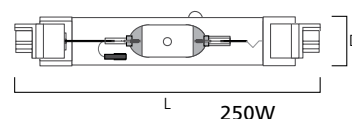
- High light output and good efficiency
- High colour rendering
- Very high colour stability over the whole lamp life
- High colour temperature (10000 K)
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

## APPLICATIONS

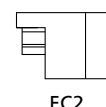
- For use in fresh and seawater aquaria
- Strong directional light which penetrates deep into large tanks
- Lifelike appearance of fish, corals and plants

## 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



RX7s-24



FC2

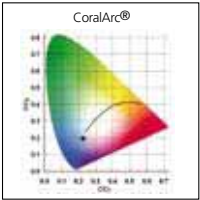
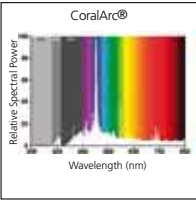
|   | 150W | 250W |
|---|------|------|
| L | 135  | 162  |
| D | 25   | 28   |

## AquaArc

| Code    | Item description    | Watt | Voltage | Current | Cap  | Bulb finish | Colour Temp | Chromaticity Coordinate |       | Light output | Packing Qty. |
|---------|---------------------|------|---------|---------|------|-------------|-------------|-------------------------|-------|--------------|--------------|
|         |                     |      |         |         |      |             |             | x                       | y     |              |              |
| 0021049 | HSI-TD 150W AquaArc | 150W | 100V    | 1.80A   | RX7s | clear       | 10000K      | 0.277                   | 0.311 | 9000 lm      | 10           |
| 0021050 | HSI-TD 250W AquaArc | 250W | 100V    | 3.00A   | Fc2  | clear       | 10000K      | 0.275                   | 0.323 | 14000 lm     | 10           |



# CORALARC



### FEATURES

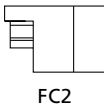
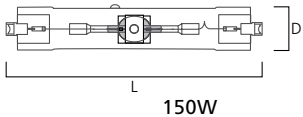
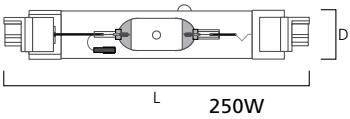
- Very high colour temperature 20000K (bluish light)
- Very high colour stability over the entire lamp life
- Enhanced colour rendition
- Point-source of light creates attractive shadow effect of water ripples on the aquarium bed

### 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 develops

### 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



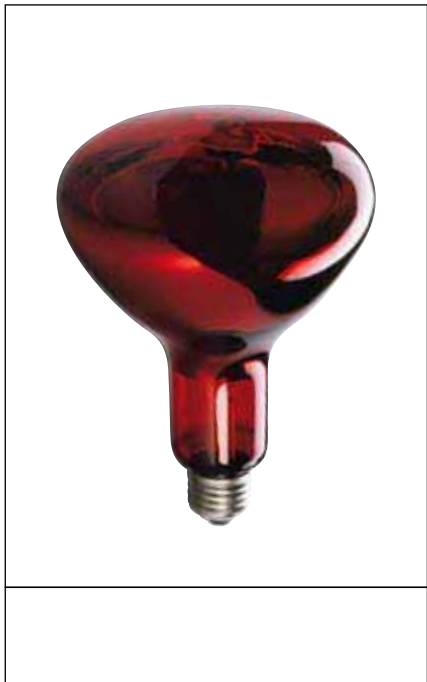
## CoralArc

| Code    | Item description     | Watt | Voltage | Current | Cap  | Bulb finish | Colour | Chromaticity Coordinate |       | Light output | Packing Qty. |
|---------|----------------------|------|---------|---------|------|-------------|--------|-------------------------|-------|--------------|--------------|
|         |                      |      |         |         |      |             |        | x                       | y     |              |              |
| 0021028 | HSI-TD 150W CoralArc | 150W | 100V    | 1.80A   | RX7s | clear       | blue   | 0.261                   | 0.257 | 5400 lm      | 10           |
| 0021029 | HSI-TD 250W CoralArc | 250W | 100V    | 3.00A   | Fc2  | clear       | blue   | 0.257                   | 0.243 | 8000 lm      | 10           |



# INFRARED

## Reflector



### FEATURES

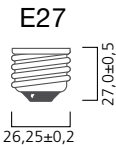
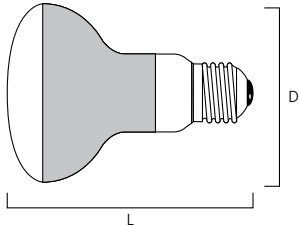
- Converts electric current into infrared radiation

### APPLICATIONS

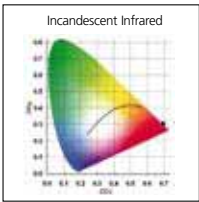
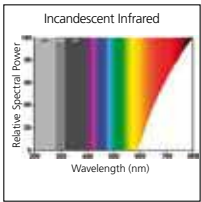
- Provides the necessary infrared radiation for reptiles in terrariums and for other pets like hamsters, mice etc

### DIRECTIONS FOR USE

- Not suitable for household room illumination

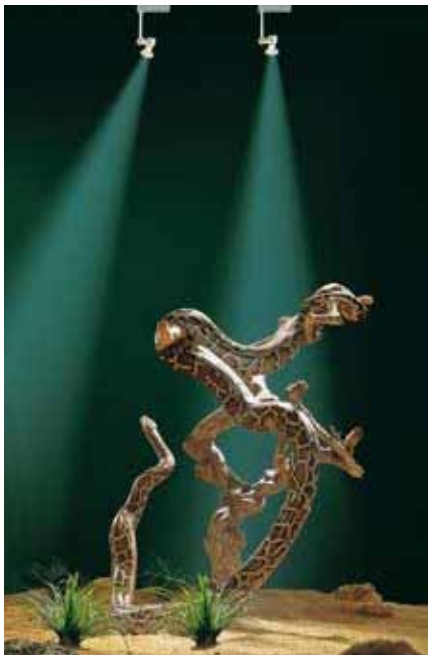


|   | 100W | 150W | 250W |
|---|------|------|------|
| L | 130  | 181  | 181  |
| D | 95   | 125  | 125  |



## INFRARED REFLECTOR

| Code    | Item description |          | Watt | Voltage | Cap | Packing Quantity |
|---------|------------------|----------|------|---------|-----|------------------|
| 0033004 | Refl. 100W R 95  | Infrared | 100W | 230V    | E27 | 20               |
| 0033002 | Refl. 150W R 125 | Infrared | 150W | 230V    | E27 | 10               |



# ACTIVA

## Seasonal Affective Disorder (SAD)



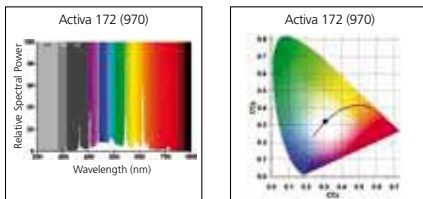
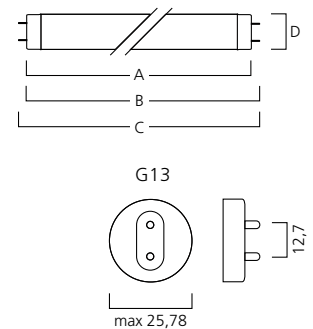
### FEATURES

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

### APPLICATIONS

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

|     | A    | B    | B    | C    | D   |
|-----|------|------|------|------|-----|
|     | max  | min  | max  | max  | nom |
| 15W | 437  | 442  | 445  | 452  | 26  |
| 18W | 590  | 595  | 597  | 604  | 26  |
| 36W | 1199 | 1204 | 1207 | 1214 | 26  |
| 58W | 1500 | 1505 | 1507 | 1514 | 26  |
| 70W | 1764 | 1769 | 1771 | 1778 | 26  |



## ACTIVA-SEASONAL AFFECTIVE DISORDER (SAD)

| Code    | Description     | Nominal Lamp |         |         | CRI Group | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|---------|-----------------|--------------|---------|---------|-----------|-----|-------------|---------------|--------------|
|         |                 | Watt         | Voltage | Current |           |     |             |               |              |
| 0002672 | F15W/172 Activa | 15W          | 55V     | 0.310A  | 1A        | G13 | 6500K       | 700 lm        | 25           |
| 0002218 | F18W/172 Activa | 18W          | 57V     | 0.370A  | 1A        | G13 | 6500K       | 1000 lm       | 25           |
| 0002219 | F36W/172 Activa | 36W          | 103V    | 0.430A  | 1A        | G13 | 6500K       | 2300 lm       | 25           |
| 0002220 | F58W/172 Activa | 58W          | 110V    | 0.670A  | 1A        | G13 | 6500K       | 3700 lm       | 25           |
| 0002188 | F70W/172 Activa | 70W          | 128V    | 0.700A  | 1A        | G13 | 6500K       | 4600 lm       | 25           |



# BLACKLIGHT

## BL350 Linear & Circline



### FEATURES

- Lamps emit UV-radiation between 315nm and 400nm with a peak at 352nm.
- The 352nm wavelength attracts insects, mainly flies and mosquitos.
- Equivalent to other fluorescent lamps for all electrical and physical characteristics

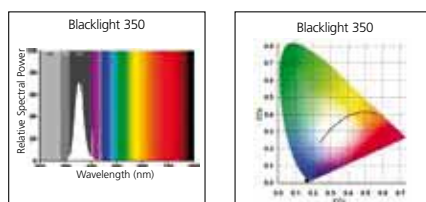
### DIRECTIONS FOR USE

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) 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-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m<sup>2</sup> depending on the wattage.

|            | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|------------|----------|----------|----------|----------|----------|
| 4W         | 136      | 141      | 143      | 150      | 16       |
| 6W         | 212      | 217      | 219      | 226      | 16       |
| 8W         | 288      | 293      | 295      | 303      | 16       |
| 11W        | 212      | 217      | 219      | 226      | 16       |
| 15WT5      | 288      | 293      | 295      | 303      | 16       |
| 15WT8      | 437      | 442      | 445      | 452      | 26       |
| 25WT8 18"  | 437      | 442      | 445      | 452      | 26       |
| 15WT12 15" | -        | -        | -        | 375      | 38       |
| 20WT12 24" | 590      | 595      | 597      | 604      | 38       |
| 40WT12 24" | 590      | 595      | 597      | 604      | 38       |
| 40WT12 48" | 1199     | 1204     | 1207     | 1214     | 38       |

### APPLICATIONS

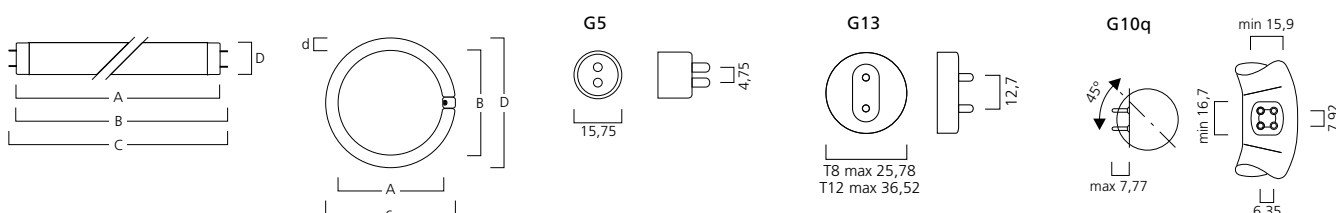
- Insect traps
- Diazo printing machines
- Photo Polymerisation
- Chemical processing
- Mineral detection
- Various technical applications



|     | A<br>min | A<br>max | B<br>min | B<br>max | C or D<br>min | C or D<br>max | d<br>min | d<br>max |
|-----|----------|----------|----------|----------|---------------|---------------|----------|----------|
| 22W | 149      | 156      | 148      | 157      | 203           | 216           | 26       | 31       |
| 32W | 149      | 156      | 148      | 157      | 203           | 216           | 26       | 31       |

## BLACKLIGHT BL350 LINEAR & CIRCLINE

| Ordering Code | Item description        | Watt | Volt | Current | Cap  | Packing Quantity |
|---------------|-------------------------|------|------|---------|------|------------------|
| 0000007       | F4 T5 BL350             | 4W   | 29V  | 0,170A  | G5   | 50               |
| 0000017       | F6 T5 BL350             | 6W   | 42V  | 0,160A  | G5   | 25               |
| 0000023       | F8 T5 BL350             | 8W   | 56V  | 0,145A  | G5   | 25               |
| 0000384       | F11 T5 BL350            | 11W  | 34V  | 0,350A  | G5   | 25               |
| 0000045       | F15 T5 BL350            | 15W  | 44V  | 0,310A  | G5   | 200              |
| 0000076       | F15 T8 BL350            | 15W  | 55V  | 0,310A  | G13  | 25               |
| 0002165       | F25 T8 BL350 18"        | 25W  | 38V  | 0,600A  | G13  | 25               |
| 0022918       | F15 T12 BL350 500PH 15" | 22W  | 57V  | 0,500A  | G13  | 30               |
| 0000359       | F20 T12 BL350 24"       | 20W  | 57V  | 0,370A  | G13  | 25               |
| 0001635       | F40 T12 BL350 24"       | 40W  | 47V  | 0,880A  | G13  | 25               |
| 0000185       | F40 T12 BL350 48"       | 40W  | 103V | 0,430A  | G13  | 25               |
| 0000489       | FC22 BL350 8"           | 22W  | 62V  | 0,400A  | G10q | 12               |
| 0000455       | FC32 BL350 8"           | 32W  | 57V  | 0,480A  | G10q | 12               |



# BLACKLIGHT

## BL350 Compact



### FEATURES

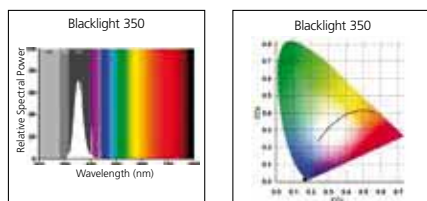
- Lamps emit UV-radiation between 315nm and 400nm with a peak at 352nm.
- The 352nm wave length attracts insects, mainly flies and mosquitoes.
- Equivalent to other fluorescent lamps for all electrical and physical characteristics

### APPLICATIONS

- Insect traps
- Nail curing
- Diazo printing machines
- Photo Polymerisation
- Chemical processing
- Mineral detection
- Various technical applications

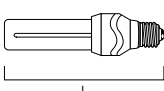
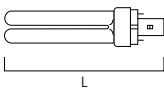
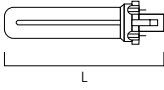
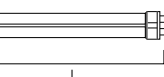
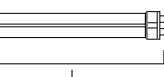
### DIRECTIONS FOR USE

- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) 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-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m<sup>2</sup> depending on the wattage.



## BLACKLIGHT BL350 COMPACT

| Ordering Code  | Item description             | Watt | Volt | Current | Cap    | Length mm | Packing Quantity |
|----------------|------------------------------|------|------|---------|--------|-----------|------------------|
| <b>0028318</b> | Mini-Lynx 20W BL350 Longlife | 20W  | 230V | 0,160A  | E 27   | 178       | 20               |
| <b>0025275</b> | LYNX-S BL355 9W              | 9W   | 60V  | 0,170A  | G23    | 165       | 50               |
| <b>0025276</b> | LYNX-S BL350 9W              | 9W   | 60V  | 0,170A  | G23    | 165       | 50               |
| <b>0025277</b> | LYNX-S BL350 11W             | 11W  | 91V  | 0,155A  | G23    | 233       | 50               |
| <b>0025158</b> | LYNX-DE BL350 13W            | 13W  | 91V  | 0,175A  | G24q-1 | 115       | 50               |
| <b>0025454</b> | LYNX-D BL350 26W             | 26W  | 105V | 0,325A  | G24d-3 | 147       | 50               |
| <b>0025239</b> | LYNX-L BL350 18W             | 18W  | 58V  | 0,375A  | 2G11   | 225       | 10               |
| <b>0025247</b> | LYNX-L BL350 36W             | 36W  | 106V | 0,435A  | 2G11   | 415       | 10               |

|               |                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|---------------|----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>E27</b>    | <b>20W</b>     |  |  |                                                                                     |                                                                                     |
| L             | 178            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| D             | 38             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>G24d-3</b> | <b>26W</b>     |  |  |  |  |
| L             | 147            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| D             | 35             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>G24q-1</b> | <b>13W</b>     |  |  |  |  |
| L             | 115            |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| D             | 35             |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>G23</b>    | <b>9W 11W</b>  |  |  |  |  |
| L             | 165 233        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| D             | 28 28          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| <b>2G11</b>   | <b>18W 36W</b> |  |  |  |  |
| L             | 225 415        |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| D             | 38 38          |                                                                                     |                                                                                     |                                                                                     |                                                                                     |



# BLACKLIGHT

## BL368 Linear & Circline



### FEATURES

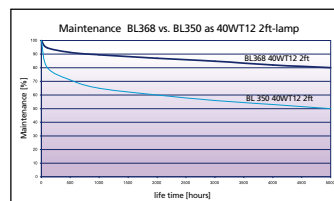
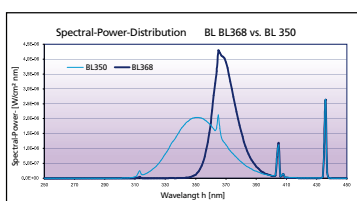
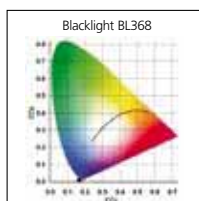
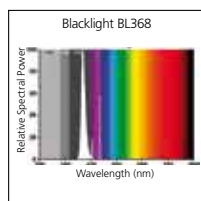
- BL368 tubes emit an upgraded highly concentrated radiation with peak around 368 nm. Flying insects eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 100 hour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

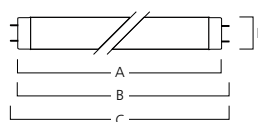
- Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m<sup>2</sup>) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m<sup>2</sup> depending on the wattage.



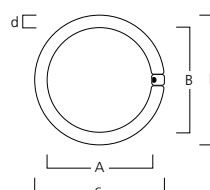
## BLACKLIGHT BL368 LINEAR & CIRCLINE

| Ordering Code | Item description  | Watt | Volt | Current | Cap  | Cap to Cap Length mm | Packing Quantity |
|---------------|-------------------|------|------|---------|------|----------------------|------------------|
| 0000082       | F15 T8 BL368      | 15W  | 55V  | 0,310A  | G13  | 437                  | 25               |
| 0002166       | F25 T8 BL368 18"  | 25W  | 38V  | 0,600A  | G13  | 452                  | 25               |
| 0000361       | F20 T12 BL368 24" | 20W  | 57V  | 0,370A  | G13  | 590                  | 25               |
| 0001638       | F40 T12 BL368 24" | 40W  | 47V  | 0,880A  | G13  | 590                  | 25               |
| 0000456       | FC22 T12 BL368    | 22W  | 62V  | 0.400A  | G10q | 216                  | 12               |

|         | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|---------|----------|----------|----------|----------|----------|
| 15WT8   | 437      | 442      | 445      | 452      | 26       |
| 20W 24" | 590      | 595      | 597      | 604      | 26       |
| 40W 24" | 590      | 595      | 597      | 604      | 26       |



|     | A<br>min | A<br>max | B<br>min | B<br>max | C or D<br>min | C or D<br>max | d<br>min | d<br>max |
|-----|----------|----------|----------|----------|---------------|---------------|----------|----------|
| 22W | 149      | 156      | 148      | 157      | 203           | 216           | 26       | 31       |



# BLACKLIGHT

## BL368 Compact

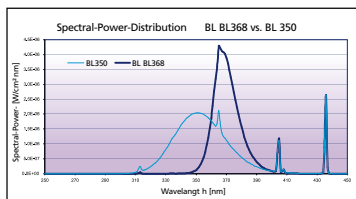
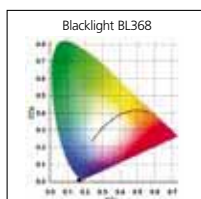
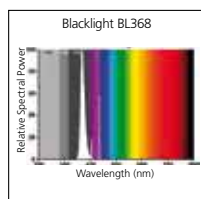


### FEATURES

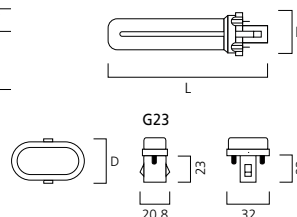
- These BL368 tubes emit an upgraded highly concentrated radiation with peak around 368 nm. Flying insect's eye sensitivity is generally at or near this frequency
- 100% improvement in effectiveness (at 368nm)
- Depreciation of UV-A output over time is significantly reduced (80% at 5000hrs of original 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<sup>2</sup>) 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<sup>2</sup> depending on the wattage.



| G23 | 9W  | 11W |
|-----|-----|-----|
| L   | 165 | 233 |
| D   | 28  | 28  |



## BLACKLIGHT BL368 COMPACT

| Ordering Code | Item description | Watt | Volt | Current | Lamp Colour | Cap | Cap to Cap Length mm | Packing Quantity |
|---------------|------------------|------|------|---------|-------------|-----|----------------------|------------------|
| 0025411       | Lynx-s BL368     | 9W   | 60V  | 0,170A  | BL368-365nm | G23 | 165                  | 50               |



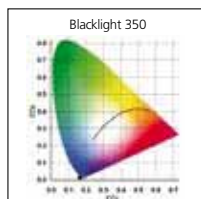
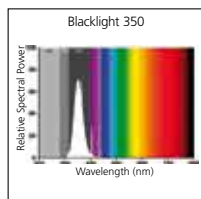
# BLACKLIGHT

## BL350 & BL368 FEP Toughcoat™



### 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

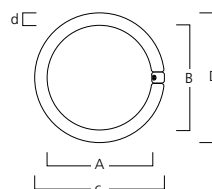
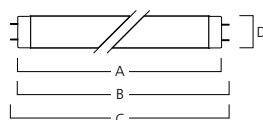
- Insect attraction in restaurants, kitchens, food shops, supermarkets
- Food processing plants
- Pharmaceutical industry
- The risk of glass and mercury contamination is strongly decreased
- Help to avoid injury and loss of production time

## BLACKLIGHT BL350 & BL368 FEP TOUGHCOAT™

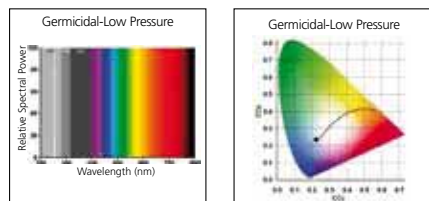
| Code                                     | Item description              | Watt | Volt | Current | Lamp Colour | Cap  | Cap to Cap Length mm | Packing Quantity |
|------------------------------------------|-------------------------------|------|------|---------|-------------|------|----------------------|------------------|
| <b>Blacklight BL350 - FEP Toughcoat™</b> |                               |      |      |         |             |      |                      |                  |
| 0000133                                  | F15W T8 BL350 Toughcoat™      | 15W  | 55V  | 0,310A  | BL350       | G13  | 437                  | 25               |
| 0000127                                  | F20W T12 BL350 Toughcoat™     | 20W  | 57V  | 0,370A  | BL350       | G13  | 590                  | 25               |
| 0000128                                  | F40W T12 2ft BL350 Toughcoat™ | 40W  | 47V  | 0,880A  | BL350       | G13  | 590                  | 25               |
| 0000121                                  | F40W T12 4ft BL350 Toughcoat™ | 40W  | 103V | 0,430A  | BL350       | G13  | 1199                 | 25               |
| 0000132                                  | FC22W BL350 Toughcoat™        | 22W  | 62V  | 0,400A  | BL350       | G10q | 216                  | 12               |
| <b>Blacklight BL368 - FEP Toughcoat™</b> |                               |      |      |         |             |      |                      |                  |
| 0000124                                  | F15W T8 BL368 Toughcoat™      | 15W  | 55V  | 0,310A  | BL368       | G13  | 437                  | 25               |
| 0000125                                  | F20W T12 BL368 Toughcoat™     | 20W  | 57V  | 0,370A  | BL368       | G13  | 590                  | 25               |
| 0000126                                  | F40W T12 2ft BL368 Toughcoat™ | 40W  | 47V  | 0,880A  | BL368       | G13  | 590                  | 25               |

|         | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|---------|----------|----------|----------|----------|----------|
| 15WT8   | 437      | 442      | 445      | 452      | 26       |
| 20W     | 590      | 595      | 597      | 604      | 26       |
| 40W/2ft | 590      | 595      | 597      | 604      | 26       |
| 40W     | 1199     | 1204     | 1207     | 1214     | 26       |

|     | A<br>min | A<br>max | B<br>min | B<br>max | Cor D<br>min | Cor D<br>max | d<br>min | d<br>max |
|-----|----------|----------|----------|----------|--------------|--------------|----------|----------|
| 22W | 149      | 156      | 148      | 157      | 203          | 216          | 26       | 31       |



## GERMICIDAL LINEAR



### FEATURES

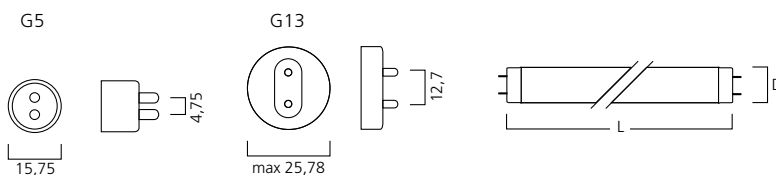
- Lamps radiate more than 85% of their energy in the UV-C spectrum at 253.7nm
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temp. of 25°
- All lamps are Ozone Free

### APPLICATIONS

- Water purification
- Destruction of bacteria, viruses, mould spores and other micro-organisms
- Sterilisation of air, gases, liquids and surfaces
- Typical application areas are hospitals, dairies, bakeries, breweries
- Disinfection of drinking water, swimming pools, air conditioning systems
- Industrial graphic equipment.
- Fluorescent effects
- Mineral detection
- Erasing EEPROM memories

### 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.



## GERMICIDAL LINEAR

| Ordering Code | Item description | Watt | Volt | Current | UV output at 25° C W | Cap | Life     | Packing Quantity |
|---------------|------------------|------|------|---------|----------------------|-----|----------|------------------|
| 0002328       | G4 T5            | 4W   | 29V  | 0.170A  | 0.8                  | G5  | 6000 hrs | 50               |
| 0002216       | G6 T5            | 6W   | 42V  | 0.160A  | 1.7                  | G5  | 6000 hrs | 50               |
| 0000501       | G8T5             | 8W   | 56V  | 0.145A  | 2.5                  | G5  | 6000 hrs | 24               |
| 0000507       | G11 T5           | 11W  | 37V  | 0,330A  | 2,2                  | G5  | 8000 hrs | 50               |
| 0000508       | G16 T5           | 16W  | 50V  | 0,350A  | 3,2                  | G5  | 8000 hrs | 24               |
| 0002482       | G10 T8           | 10W  | 46V  | 0.230A  | 2.6                  | G13 | 6000 hrs | 10               |
| 0000502       | G15 T8           | 15W  | 55V  | 0.310A  | 4.9                  | G13 | 8000 hrs | 24               |
| 9000526       | G25 T8           | 25W  | 46V  | 0.600A  | 6.9                  | G13 | 8000 hrs | 24               |
| 0000503       | G30 T8           | 30W  | 96V  | 0.365A  | 13.4                 | G13 | 8000 hrs | 24               |
| 0000504       | G36 T8           | 36W  | 103V | 0.430A  | 15.5                 | G13 | 8000 hrs | 20               |
| 0002208       | G55 T8           | 55W  | 83V  | 0.770A  | 18.0                 | G13 | 8000 hrs | 96               |
| 0002217       | G58 T8           | 58W  | 110V | 0.670A  | 20.0                 | G13 | 5000 hrs | 12               |
| 9002500       | G20 T10          | 20W  | 58V  | 0.360A  | 7.5                  | G13 | 8000 hrs | 10               |
| 9002327       | G40 T10          | 40W  | 106V | 0.420A  | 19.8                 | G13 | 8000 hrs | 10               |

|   | G4T5<br>4W | G6T5<br>6W | G8T5<br>8W | G11T5<br>11W | G16T5<br>16W | G10T8<br>10W | G15T8<br>15W | G25T8<br>25W | G30T8<br>30W | G36T8<br>36W | G55T8<br>55W | G58T8<br>58W | G20T10<br>20W | G40T10<br>40W |
|---|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| L | 136        | 212        | 288        | 212          | 288          | 330          | 437          | 436          | 894          | 1198         | 893          | 1500         | 590           | 1199          |
| D | 16         | 16         | 16         | 16           | 16           | 26           | 26           | 26           | 26           | 26           | 26           | 26           | 34            | 34            |

## GERMICIDAL COMPACT



### FEATURES

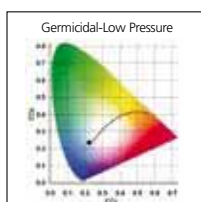
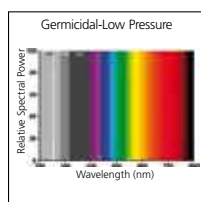
- Lamps radiate more than 85% of their energy in the UV-C spectrum at 253.7nm
- Shape, electrical characteristics and lighting circuits are similar to general fluorescent lamps
- The majority of germicidal lamps operate most efficiently in still air at an ambient temp. of 25°
- All lamps are Ozone Free
- GTL3 replaces older G4S11 types

### APPLICATIONS

- Water purification
- Destruction of bacteria, viruses, mould spores and other microorganisms
- Sterilisation of air, gases, liquids and surfaces
- Typical application areas are hospitals, dairies, bakeries, breweries
- Disinfection of drinking water, swimming pools, air conditioning systems
- Industrial graphic equipment
- Fluorescent effects
- Mineral detection
- Erasing EPROM memories

### DIRECTIONS FOR USE

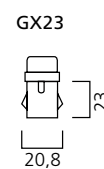
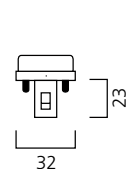
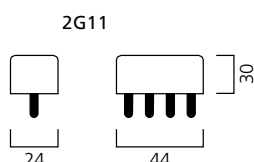
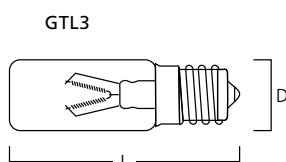
- The radiation from these lamps is very harmful to eyes and skin. Always protect your eyes and skin against radiation.
- Germicidal lamps must only be used in appropriate equipment and applications.
- When using UV-C emitting lamps, the official reference guides and the current industrial safety guideline 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.



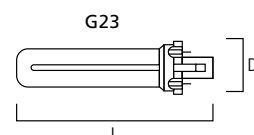
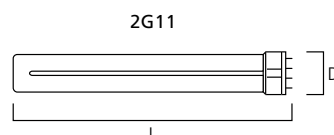
## GERMICIDAL COMPACT

| Ordering Code  | Item description | Watt | Voltage | Current | UV output at 25° C W | Cap  | Life     | Packing Quantity |
|----------------|------------------|------|---------|---------|----------------------|------|----------|------------------|
| <b>9002460</b> | GTL 3            | 3W   | 10.5V   | 0.300A  | 0.16                 | E17  | 2000 hrs | 50               |
| <b>0025046</b> | G5 Lynx-S        | 5W   | 35V     | 0.180A  | 1.0                  | G23  | 8000 hrs | 10               |
| <b>0025050</b> | G9 Lynx-S        | 9W   | 59V     | 0.170A  | 2.4                  | G23  | 8000 hrs | 10               |
| <b>0025051</b> | G11 Lynx-S       | 11W  | 89V     | 0.160A  | 3.6                  | G23  | 8000 hrs | 10               |
| <b>0025047</b> | G13 Lynx-S       | 13W  | 59V     | 0.285A  | 3.4                  | GX23 | 8000 hrs | 10               |
| <b>0025049</b> | G18 L            | 18W  | 58V     | 0.375A  | 5.5                  | 2G11 | 8000 hrs | 25               |
| <b>0025048</b> | G36 L            | 36W  | 106V    | 0.435A  | 12.0                 | 2G11 | 8000 hrs | 25               |
| <b>0025045</b> | G55 L            | 55W  | 103V    | 0.540A  | 17.0                 | 2G11 | 8000 hrs | 25               |

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



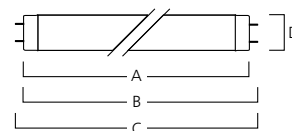
| G23 | 5W  | 7W  | 9W  | 11W | 13W |
|-----|-----|-----|-----|-----|-----|
| L   | 105 | 134 | 165 | 233 | 233 |
| D   | 28  | 28  | 28  | 28  | 28  |



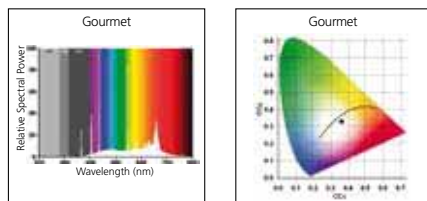
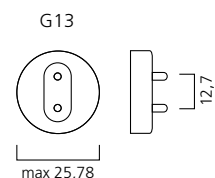
## GOURMET 175



- Special T8 fluorescent lamps to display meat products
- The perfect lighting for butcher shops, restaurants and supermarkets
- Excellent colour rendering Class 1B (RA 80-89)
- Colour temperature 3700K
- Direct retrofit for all T8 Standard and T8 Luxline Plus lamps



|     | A    | B    | B    | C    | D   |
|-----|------|------|------|------|-----|
|     | max  | min  | max  | max  | nom |
| 18W | 590  | 595  | 597  | 604  | 26  |
| 30W | 895  | 899  | 902  | 909  | 26  |
| 36W | 1199 | 1204 | 1207 | 1214 | 26  |
| 58W | 1500 | 1505 | 1507 | 1514 | 26  |
| 70W | 1764 | 1769 | 1771 | 1778 | 26  |

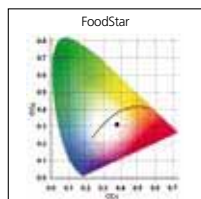
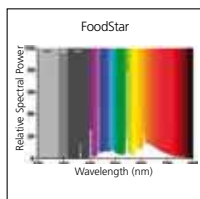


## GOURMET 175

| Code    | Item description | Watt | Voltage | Current | CRI | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|---------|------------------|------|---------|---------|-----|-----|-------------|---------------|--------------|
| 0001810 | F18W/175 Gourmet | 18W  | 57V     | 0.370A  | 1B  | G13 | 3700K       | 650 lm        | 25           |
| 0001971 | F30W/175 Gourmet | 30W  | 96V     | 0.365A  | 1B  | G13 | 3700K       | 1100 lm       | 25           |
| 0001811 | F36W/175 Gourmet | 36W  | 103V    | 0.430A  | 1B  | G13 | 3700K       | 1500 lm       | 25           |
| 0001812 | F58W/175 Gourmet | 58W  | 110V    | 0.670A  | 1B  | G13 | 3700K       | 2400 lm       | 25           |
| 0002540 | F70W/175 Gourmet | 70W  | 128V    | 0.700A  | 1B  | G13 | 3700K       | 2800 lm       | 25           |



## FOOD STAR 176



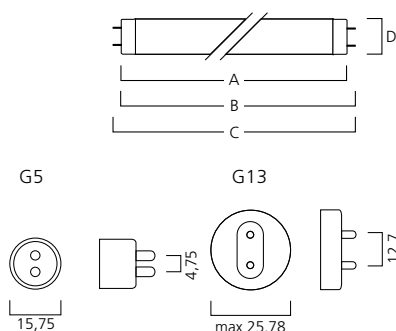
### FEATURES

- Foodstar lamps feature a specially tailored spectrum that complements the natural colours of meats, breads and other food products
- Illuminates foods in their optimum colours for an irresistible presentation to the customer
- Truthful colour rendering does not disturb the natural colours of the products
- Manufactured in compliance with the DIN 10504 standard.

### APPLICATIONS

- Perfect lighting of food products in butchers, bakeries and supermarkets

|        | A<br>max | B<br>min | B<br>max | C<br>max | D<br>nom |
|--------|----------|----------|----------|----------|----------|
| 14W    | 549      | 554      | 556      | 563      | 16       |
| 21W    | 849      | 854      | 856      | 863      | 16       |
| 28W    | 1149     | 1154     | 1156     | 1163     | 16       |
| 35W    | 1449     | 1454     | 1456     | 1463     | 16       |
| 36W    | 1199     | 1204     | 1207     | 1214     | 26       |
| 58W    | 1500     | 1505     | 1507     | 1514     | 26       |
| 36W/1m | 970      | 974      | 977      | 984      | 26       |



## FOOD STAR 176

| Code    | Item description        | Watt | Voltage | Current | CRI | Cap | Colour Temp | Luminous Flux | Packing Qty. |
|---------|-------------------------|------|---------|---------|-----|-----|-------------|---------------|--------------|
| 0001819 | FHE 21W T5 176 FOODSTAR | 21W  | 126V    | 0,165A  | 84  | G5  | 3500K       | 1050 lm       | 25           |
| 0001820 | FHE 28W T5 176 FOODSTAR | 28W  | 166V    | 0,170A  | 84  | G5  | 3500K       | 1400 lm       | 25           |
| 0001821 | FHE 35W T5 176 FOODSTAR | 35W  | 205V    | 0,175A  | 84  | G5  | 3500K       | 1750 lm       | 25           |
| 0001816 | F36W T8 176 FOODSTAR    | 36W  | 103V    | 0,430A  | 84  | G13 | 3500K       | 1800 lm       | 25           |
| 0001817 | F36W T8 1M 176 FOODSTAR | 36W  | 80V     | 0,560A  | 84  | G13 | 3500K       | 1600 lm       | 25           |
| 0001818 | F58W T8 176 FOODSTAR    | 58W  | 110V    | 0,670A  | 84  | G13 | 3500K       | 2850 lm       | 25           |



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## HID

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| <b>0025941</b> | Lynx-D White Deluxe (835)                       | 102 | <b>0031057</b> | ML Ball Homelight (827)                       | 94  | <b>0060522</b> | Optional remote control Unit:                 | 190 |
| <b>0025942</b> | Lynx-D White Deluxe (835)                       | 102 | <b>0031059</b> | ML Ball Homelight (827)                       | 94  | <b>0060523</b> | Optional remote control Unit:                 | 190 |
| <b>0025943</b> | Lynx-D White Deluxe (835)                       | 102 | <b>0031061</b> | ML Ball Homelight (827)                       | 94  | <b>0060524</b> | PAR56 12V LED SWIMMING POOL                   | 190 |
| <b>0025945</b> | Lynx-DE White Deluxe (835)                      | 103 | <b>0031063</b> | ML Ball Homelight (827)                       | 94  | <b>0060526</b> | PAR56 12V LED SWIMMING POOL                   | 190 |
| <b>0025946</b> | Lynx-DE White Deluxe (835)                      | 103 | <b>0031064</b> | ML Ball Cool White (840)                      | 94  | <b>0925233</b> | Lynx-L Warm White Deluxe (830)                | 106 |
| <b>0025947</b> | Lynx-DE White Deluxe (835)                      | 103 | <b>0031065</b> | ML Ball Homelight (827)                       | 94  | <b>0925234</b> | Lynx-L Cool White Deluxe (840)                | 106 |
| <b>0025948</b> | Lynx-DE Daylight Deluxe (860)                   | 103 | <b>0031071</b> | ML GLS Homelight (827)                        | 92  | <b>0925235</b> | Lynx-L Warm White Deluxe (830)                | 106 |
| <b>0025949</b> | Lynx-DE Daylight Deluxe (860)                   | 103 | <b>0031073</b> | ML GLS Homelight (827)                        | 92  | <b>0925236</b> | Lynx-L Cool White Deluxe (840)                | 106 |
| <b>0025950</b> | Lynx-DE Daylight Deluxe (860)                   | 103 | <b>0031075</b> | ML GLS Homelight (827)                        | 92  | <b>0925237</b> | Lynx-L Warm White Deluxe (830)                | 106 |
| <b>0025951</b> | Lynx-DE Daylight Deluxe (860)                   | 103 | <b>0031077</b> | ML GLS Cool White (840)                       | 92  | <b>0925238</b> | Lynx-L Cool White Deluxe (840)                | 106 |
| <b>0026152</b> | ToLEDo GLS                                      | 74  | <b>0031085</b> | ML Candle Homelight (827)                     | 93  | <b>0925461</b> | Lynx-LE Warm White Deluxe (830)               | 107 |
| <b>0026156</b> | ToLEDo Candle                                   | 72  | <b>0031087</b> | ML Candle Cool White (840)                    | 93  | <b>0925462</b> | Lynx-LE Cool White Deluxe (840)               | 107 |
| <b>0026160</b> | ToLEDo Candle Bent Tip                          | 72  | <b>0031089</b> | ML Candle Homelight (827)                     | 93  | <b>0925464</b> | Lynx-LE Warm White Deluxe (830)               | 107 |
| <b>0026164</b> | ToLEDo Ball                                     | 73  | <b>0031091</b> | ML Candle Homelight (827)                     | 93  | <b>0925465</b> | Lynx-LE Cool White Deluxe (840)               | 107 |
| <b>0026170</b> | HI-SPOTR ReFLed PAR20                           | 78  | <b>0031093</b> | ML Candle Homelight (827)                     | 93  | <b>9000186</b> | BLACKLIGHT BLUE LAMPS                         | 192 |
| <b>0026172</b> | HI-SPOTR ReFLed PAR30                           | 79  | <b>0031095</b> | ML Candle Homelight (827)                     | 93  | <b>9000358</b> | BLACKLIGHT BLUE LAMPS                         | 192 |
| <b>0026178</b> | ToLEDo Ball                                     | 73  | <b>0031097</b> | ML Candle Homelight (827)                     | 93  | <b>9000526</b> | GERMICIDAL LINEAR                             | 214 |
| <b>0026190</b> | ToLEDo GLS                                      | 74  | <b>0031099</b> | ML Candle Cool White (840)                    | 93  | <b>9002327</b> | GERMICIDAL LINEAR                             | 214 |
| <b>0026260</b> | ML Standard /Economy Homelight (827)            | 88  | <b>0031101</b> | ML Candle Cool White (840)                    | 93  | <b>9002460</b> | GERMICIDAL COMPACT                            | 215 |
| <b>0026261</b> | ML Standard /Economy Homelight (827)            | 88  | <b>0031102</b> | ML Candle Cool White (840)                    | 93  | <b>9002500</b> | GERMICIDAL LINEAR                             | 214 |
| <b>0026441</b> | ML Standard /Economy Cool White (840)           | 88  | <b>0031103</b> | ML Candle Homelight (827)                     | 93  | <b>9007550</b> | Striplights                                   | 28  |
| <b>0026484</b> | GROLUX T8/Mini-Lynx Retail Pack Quantity per 20 | 195 | <b>0031107</b> | ML R50 - R80 Reflector                        | 98  | <b>9007551</b> | Striplights                                   | 28  |
| <b>0027275</b> | REPTISTAR MINI-LYNX                             | 203 | <b>0031109</b> | ML R50 - R80 Reflector                        | 98  | <b>9007565</b> | Striplights                                   | 28  |
| <b>0027276</b> | REPTISTAR MINI-LYNX                             | 203 | <b>0031113</b> | ML R50 - R80 Reflector                        | 98  | <b>9007590</b> | Striplights                                   | 28  |
| <b>0027801</b> | Lynx-T Warm White Deluxe (830)                  | 99  | <b>0031115</b> | ML R50 - R80 Reflector                        | 98  | <b>9007596</b> | Striplights                                   | 28  |
| <b>0027802</b> | Lynx-T Cool White Deluxe (840)                  | 99  | <b>0031116</b> | ML Ball Cool White (840)                      | 94  | <b>9007597</b> | Striplights                                   | 28  |
| <b>0027811</b> | Lynx-T Warm White Deluxe (830)                  | 99  | <b>0031117</b> | ML Compact Fast-start Stick Daylight (860)    | 90  | <b>9007607</b> | Striplights                                   | 28  |
| <b>0027812</b> | Lynx-T Cool White Deluxe (840)                  | 99  | <b>0031118</b> | ML Ball Homelight (827)                       | 94  | <b>9020167</b> | PAR36                                         | 186 |
| <b>0027816</b> | Lynx-TE Cool White Deluxe (840)                 | 100 | <b>0031120</b> | ML R50 - R80 Reflector                        | 98  | <b>9061109</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027817</b> | Lynx-TE Warm White Deluxe (830)                 | 100 | <b>0031121</b> | ML Candle Homelight (827)                     | 93  | <b>9061127</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027821</b> | Lynx-TE Cool White Deluxe (840)                 | 100 | <b>0031122</b> | ML GLS Cool White (840)                       | 92  | <b>9061128</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027822</b> | Lynx-TE Warm White Deluxe (830)                 | 100 | <b>0031123</b> | ML Compact Fast-start Spiral Homelight (827)  | 91  | <b>9061129</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027826</b> | Lynx-F Cool White Deluxe (840)                  | 108 | <b>0031126</b> | ML Compact Fast-start Stick Homelight (827)   | 90  | <b>9061146</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027830</b> | Lynx-F Warm White Deluxe (830)                  | 108 | <b>0031127</b> | ML Compact Fast-start Stick Homelight (827)   | 90  | <b>9061147</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027831</b> | Lynx-F Cool White Deluxe (840)                  | 108 | <b>0031139</b> | ML Compact Fast-start Spiral Homelight (827)  | 91  | <b>9061148</b> | PAR64 MAINS VOLTAGE                           | 191 |
| <b>0027835</b> | Lynx-F Warm White Deluxe (830)                  | 108 | <b>0031140</b> | Mini-Lynx Fast-start 10K Homelight (827)      | 89  | <b>9061532</b> | PAR56 12V SWIMMING POOL                       | 189 |
| <b>0027836</b> | Lynx-F Cool White Deluxe (840)                  | 108 | <b>0031141</b> | Mini-Lynx Fast-start 10K Homelight (827)      | 89  |                |                                               |     |
| <b>0027840</b> | Lynx-TE Cool White Deluxe (840)                 | 100 | <b>0031143</b> | Mini-Lynx Fast-start 10K Homelight (827)      | 89  |                |                                               |     |
| <b>0027842</b> | Lynx-TE Warm White Deluxe (830)                 | 100 | <b>0031144</b> | Mini-Lynx Fast-start 10K Cool White (840)     | 89  |                |                                               |     |
| <b>0027844</b> | Lynx-TE Warm White Deluxe (830)                 | 100 | <b>0031146</b> | Mini-Lynx Fast-start 10K Homelight (827)      | 89  |                |                                               |     |
| <b>0027845</b> | Lynx-TE Cool White Deluxe (840)                 | 100 | <b>0031147</b> | Mini-Lynx Fast-start 10K Homelight (827)      | 89  |                |                                               |     |
| <b>0027851</b> | Lynx-TE FSD Warm White Deluxe (830)             | 101 | <b>0031148</b> | Mini-Lynx Fast-start 10K Cool White (840)     | 89  |                |                                               |     |

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