

90
YEARS OF LIGHT
1924 - 2014

SYLVANIA



LED Sylvania Lamps Overview

Discover all our offers to help you save energy and reduce maintenance costs

September 2014

SYLVANIA

PROFESSIONAL APPLICATIONS



RefLED Coolfit, RefLED Superia and ToLEDo Superia

- Made in Europe quality from our factories in Belgium and Germany
- Offers 25'000 to 50'000 hours lifetime
- Supported by a 5 year warranty
 - Best colour uniformity from lamp-to-lamp (improved LED binning)
 - Best colour stability through life
 - Best lumen maintenance
 - Leading thermal management in enclosed fixtures



SEMI-PROFESSIONAL AND PREMIUM RESIDENTIAL APPLICATIONS

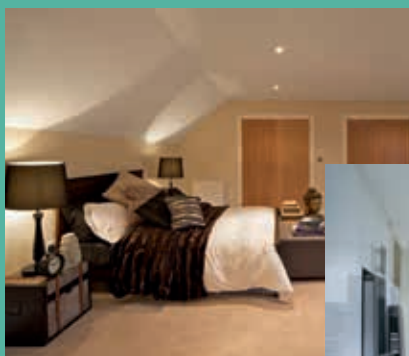


RefLED+ and ToLEDo+

- Good quality lamps with key features such as high light output, good beam characteristics or dimmability
- Offer up to 15,000 to 30,000 hours lifetime
- Supported by a 3 year warranty



RESIDENTIAL APPLICATIONS



RefLED and ToLEDo

- Good every day quality from a brand you can trust







**COOLFIT
LEDs**

VS

**STANDARD
LEDs**

- Designed to work in enclosed fixtures
- Improved thermal management ensures a longer lamp life
- Improved lumen maintenance over life

- Prevents premature failures
- Provides continuous light service

- Designed for open fixtures. In enclosed fixtures they could last only 5,000 hours.

- Standard LED lamps will overheat leading to premature failures or thermal cut out protective prevents ongoing light service



**COOLFIT
dimmable**



COOLFIT - The new standard for high performance LED

Optimised thermal management
Delivers reduced failures
Suitable for enclosed fixtures



**COOLFIT
non-dimmable**

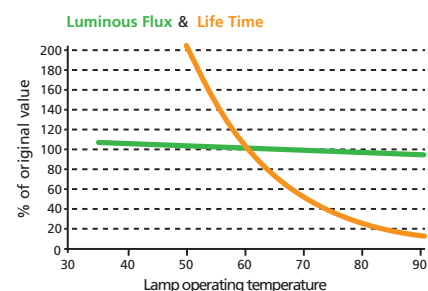
- Automatic Heat Control (AHC Technology)
- Self-monitoring automatic thermal regulation

- Designed to operate cooler enabling greater ability to handle increased heat from enclosed fixtures
- Longer life and high lumen maintenance

Increased heat = increased failures and lower lamp life
Any increase in the temperature of an LED lamp over its designed operating temperature will reduce its useful life.

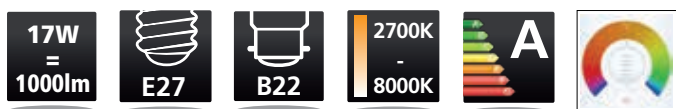
Lamps with Coolfit Technology maintain more constant operating temperatures for longer lamp life.

Lamp operating temperature increases 10° = 50% reduction in lamp life



LIFX GLS

- Easy to install - No electricians or ugly control boxes required. Just replace regular bulbs with LIFX and they can all be controlled with any Android or iOS device
- Award winning design - Every aspect of the lightbulb has been designed from the ground-up to produce the highest quality, brightest and most advanced smart bulb available. Making it a practical replacement for your lighting.
- Lasts up to 25 years- LIFX isn't just a pretty face, it's a super energy efficient, long lasting LED that can last up to 25 years. With 20% of homes energy consumption attributed to lighting LIFX will save you money each year.
- Set Scenes, create moods We all like the lighting in our home set certain ways, with LIFX those options expand infinitely. Colors, brightness, dimming and features like candle mode are all at your fingertips.
- Up to 16 million colours Color's effects on our moods, our sense of well being, our ability to relax, or our ability to focus is monumental. Giving you complete control of your color allows you to design your lighting to your desire.
- Serious Smarts LIFX can be controlled from your couch, or anywhere in the world with LIFX Cloud. It can also wake you up in the morning, deliver notifications or even ward off intruders with a patent pending security mode.

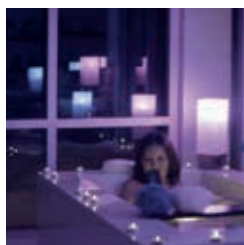


Code	Watt (W)	Base	Colour in (Kelvin)	Colour in Name	Dimmable	Voltage (V)	Luminous Flux	lm/W	Life (h)	Energy Class	Sales Pack Size
LIFX											
9026340	17	E27	2700-8000	RGBW	Yes - Via App	100-240	1000	56	40,000	A	4
9026341	17	B22	2700-8000	RGBW	Yes - Via App	100-240	1000	56	40,000	A	4



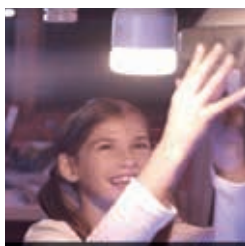
Easy to install

Just replace traditional lamps with LIFX and they can all be controlled with any Android or iOS device. Wi-fi setup is simple and does not require a hub or bridge.



Set scenes, create moods

LIFX can create the perfect mood with scene setting capabilities, ideal for both retail and hospitality environments. Hotel guests can even change the lighting atmosphere in their own rooms at the touch of a button.



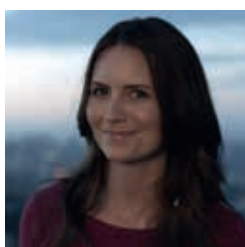
Award winning design

Every aspect of the lightbulb has been designed from the ground-up to produce the highest quality, brightest (up to 1000lm output equivalent) and most advanced smart lamp available. Making it a practical replacement for your lighting.



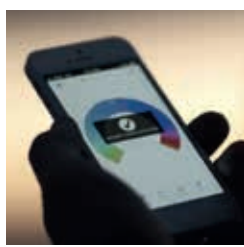
Up to 16 million colours

Colour's effects on our moods, our sense of wellbeing, our ability to relax, or our ability to focus is monumental. Giving you complete control of your colour allows you to design your lighting to your desire.



Lasts up to 25 years

LIFX isn't just a pretty face, it's a super energy efficient, (over 75% energy saving) long lasting LED that can last up to 25 years. With 20% of energy consumption attributed to lighting, LIFX will save you money each year.



Seriously smart

LIFX can be controlled from anywhere in the world with LIFX Cloud. It can wake you up in the morning or even ward off intruders with a patent pending security mode.

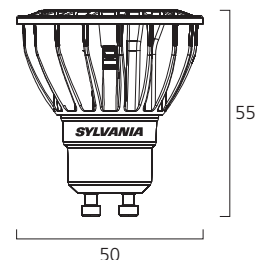
Software features:

- Visualise music (Strobe, Lava Lamp, Pastels)
- Blink on 'event', e.g. email or stock-price change, text message
- Hands-free activation using Geo-fencing (WiFi)
- Works with home automation systems including Google Nest



RefLED COOLFIT ES50 5,5W 345LM DIMMABLE AND NON-DIMMABLE

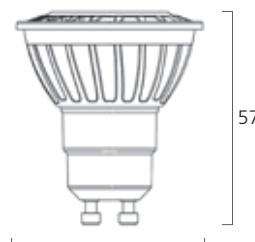
- Up to 89% energy saving compared to halogen lamps
- Dimmable version available - New improved dimmable lamps, now compatible with > 90% of known dimmer switches
- 5.5W - low energy consumption
- Beam angle of 25° and 40°
- High light output: comparable to 50W Halogen GU10 with 345lm
- Available in Homelight (2700K), Warm White (3000K) and Cool White (4000K)
- Average Rated Life up to 50'000 hours in open fixtures (For non dimmable range)
- Coolfit technology ensures long lifetime of up to 25,000 hours even in enclosed fixtures
- High power factor 0.8
- 100% retrofit - IEC standard dimensions



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Coolfit ES50 5,5W 345LM Dimmable												
0026361	5.5W	GU10	2700	40	Yes	220-240	345	63	600	25,000	A+	15
0026362	5.5W	GU10	3000	25	Yes	220-240	345	63	1200	25,000	A+	15
0026363	5.5W	GU10	3000	40	Yes	220-240	345	63	600	25,000	A+	15
0026365	5.5W	GU10	4000	40	Yes	220-240	345	63	600	25,000	A+	15
RefLED Coolfit ES50 5,5W 345LM Non Dimmable												
0026538	5.5W	GU10	2700	40	No	220-240	345	50	600	50,000	A+	15
0026539	5.5W	GU10	3000	25	No	220-240	345	50	600	50,000	A+	15
0026541	5.5W	GU10	3000	40	No	220-240	345	50	1200	50,000	A+	15
0026540	5.5W	GU10	4000	40	No	220-240	345	50	600	50,000	A+	15

RefLED Superia ES50 375Lm

- High light output – 375Lm = 54W Halogen GU10
- 50'000 Hours average life in open fixtures
- Coolfit – up to 25,000 hours in enclosed fixtures
- Low energy – 5.5W = 68Lm/W – A+ Energy Class
- PureForm – matches size and shape of halogen GU10 lamp
- High power factor – 0.9
- Single LED emitter – precise light with uniform beam
- Made in Europe quality – 6 year warranty

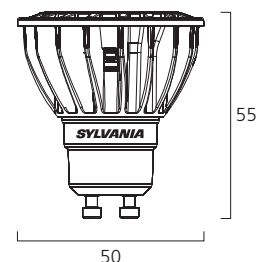


PureForm

Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Superia ES50 375Lm												
0026620	5.5W	GU10	2700	25	No	100-240	375	68	1700	50,000	A+	15
0026621	5.5W	GU10	2700	40	No	100-240	375	68	850	50,000	A+	15
0026622	5.5W	GU10	3000	25	No	100-240	375	68	1700	50,000	A+	15
0026623	5.5W	GU10	3000	40	No	100-240	375	68	850	50,000	A+	15
0026624	5.5W	GU10	4000	25	No	100-240	375	68	1700	50,000	A+	15
0026625	5.5W	GU10	4000	40	No	100-240	375	68	850	50,000	A+	15

RefLED SUPERIA ES50 7W 460LM

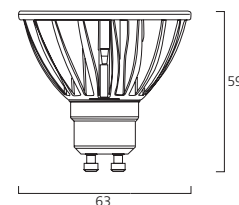
- Up to 85% energy saving compared to halogen GU10 lamps
- First true 50W halogen retrofit
- 100% retrofit - IEC standard dimensions
- Beam angle of 25°, 40°
- 65W halogen with 460lm
- Available in Homelight (2400K, 2700K), Warm White (3000K) and Cool White (4000K)
- Average rated life 25,000 hours
- High power factor 0.8
- 100% retrofit - IEC standard dimensions



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Superia ES50 7W 460LM												
0026308	7	GU10	2700	25	No	220-240	460	61	1800	25,000	A+	15
0026310	7	GU10	2700	40	No	220-240	460	61	900	25,000	A+	15
0026311	7	GU10	3000	25	No	220-240	460	61	1800	25,000	A+	15
0026312	7	GU10	3000	40	No	220-240	460	61	900	25,000	A+	15
0026313	7	GU10	4000	25	No	220-240	460	61	1800	25,000	A+	15
0026314	7	GU10	4000	40	No	220-240	460	61	900	25,000	A+	15

RefLED SUPERIA ES63 7W 460LM

- High light output of 460 lumens = 63W ES63 Halogen
- 7W - save over 85% energy
- Long lifetime 25,000 hours
- High Luminous Efficacy: Up to 62 lm/W
- IEC standard dimensions - true retrofit size
- High Power Factor - 0.8
- 5 Year warranty



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Superia ES63 7W 460LM												
0026415	7W	GU10	3000	25	No	220-240	460	62	1800	25,000	A+	15
0026416	7W	GU10	3000	40	No	220-240	460	62	900	25,000	A+	15

RefLED+ ES50 6,5W 345LM DIMMABLE

- Up to 90% energy saving compared to halogen lamps
- 6.5W true 50W halogen retrofit,
- As per IEC standard dimensions, its compact size means it can retrofit all GU10 and GZ10
- Beam angle of 40°
- Available in different colour temperatures: 2700K Homelight, 3000K Warm white and 4000K Cool white
- High efficacy, up to 58lm/W
- Average rated life of 25,000 hours
- Power Factor = 0.75



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED+ ES50 6,5W 345LM* Dimmable												
0026790	6.5W	GU10	2700	40	Yes	220-240	345	53	750	25,000	A	6
0026791	6.5W	GU10	3000	40	Yes	220-240	360	55	800	25,000	A	6
0026792	6.5W	GU10	4000	40	Yes	220-240	380	58	850	25,000	A+	6

RefLED+ ES50 8W 450LM DIMMABLE

- Up to 90% energy saving compared to halogen lamps
- 8W - 450Lm+ equivalent to 65W Halogen GU10
- As per IEC standard dimensions, its compact size means it can retrofit all GU10 and GZ10
- Beam angle of 40°
- Available in different colour temperatures: 2700K Homelight, 3000K Warm white and 4000K Coolwhite
- High efficacy, up to 60lm/W
- Average rated life of 25,000 hours
- Power Factor = 0.75



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED+ ES50 8W 450LM* Dimmable												
0026805	8	GU10	2700	40	Yes	220-240	450	56	1200	25,000	A	6
0026806	8	GU10	3000	40	Yes	220-240	460	58	1200	25,000	A	6
0026807	8	GU10	4000	40	Yes	220-240	480	60	1200	25,000	A	6

RefLED ES50 250lm, 265 and 345lm

- Up to 90% energy saving comparing to halogen
- 3.5W 250Lm = 38W Equivalent, 5W 265Lm 100 degree beam = 40W Equivalent
5W 345Lm = 50W Equivalent, 6W 345Lm Dimmable = 50W Equivalent
- As per IEC standard dimensions, its compact size means it can retrofit all GU10 and GZ10
- Beam angle of 36° and 110°
- Available in different colour temperatures: 3000K Warm white and 4000K Cool white
- Up to 61lm/w
- Average rated life of 15,000 hours
- High power factor up to 0.7
- 3 year warranty



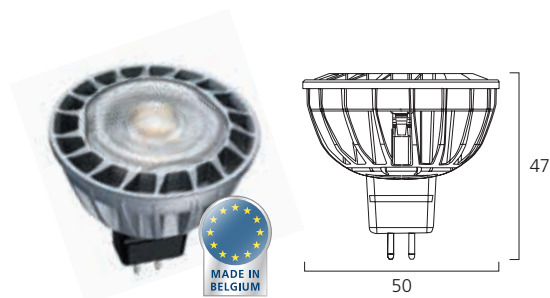
Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
250lm - 38W Halogen Replacement												
0026575	3.5	GU10	3000	36	No	220-240	250	71	650	15,000	A++	6
0026576	3.5	GU10	4000	36	No	220-240	250	71	700	15,000	A++	6
345lm - 50W Halogen Replacement												
0026579	5	GU10	3000	36	No	220-240	345	50	950	15,000	A+	6
0026580	5	GU10	4000	36	No	220-240	345	50	1000	15,000	A+	6
265 lm - 40W Halogen Equivalent - Ultra wide beam - 110 degrees												
0026587	5	GU10	3000	110	No	220-240	265	40	130	15,000	A+	6

Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
345 lm - 50W Halogen replacement - Dimmable												
0026592	6	GU10	3000	36	No	220-240	345	50	900	15,000	A+	6
0026594	6	GU10	3000	36	No	220-240	345	50	900	15,000	A+	6



RefLED SUPERIA MR16 8W 575LM

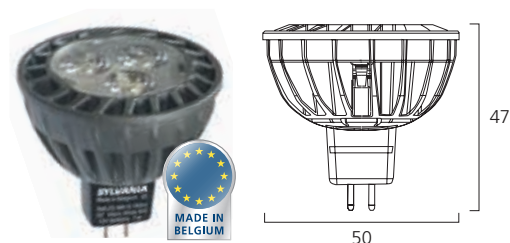
- High light output of 575 useful lumens = 50W MR16 Halogen
- 8W/12V AC/DC - save over 80% energy
- Coolfit technology ensures long lifetime, even in enclosed fixtures
- AHC (Automatic Heat Control) ensures longer life by preventing lamp from over heating
- High Power Factor - 0.7
- High Luminous Efficacy: up to 72lm/W



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Superia MR16 8W 575LM											
0026339	8W	GU5.3	2700	25	12	575	72	1500	25,000	A+	15
0026347	8W	GU5.3	2700	40	12	575	72	900	25,000	A+	15
0026343	8W	GU5.3	3000	25	12	575	72	1500	25,000	A+	15
0026344	8W	GU5.3	3000	40	12	575	72	900	25,000	A+	15
0026346	8W	GU5.3	3000	60	12	575	72	525	25,000	A+	15
0026348	8W	GU5.3	4000	40	12	575	72	900	25,000	A+	15

RefLED SUPERIA MR16 7W 345LM/460LM

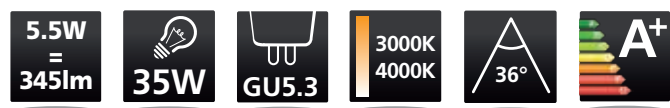
- High light output of - 345 useful lumens = 35W MR16 Halogen - 460 useful lumens = 41W MR16 Halogen
- 80% Energy saving vs. halogen MR16 means fast payback
- Coolfit technology ensures long lifetime, even in enclosed fixtures
- AHC (Automatic Heat Control) ensures longer life by preventing lamp from over heating
- High Power Factor - 0.7
- 12V AC/DC



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED Superia MR16 7W 460LM											
0026352	7W	GU5.3	2700	25	12	460	61	1800	25,000	A	15
0026350	7W	GU5.3	2700	40	12	460	61	900	25,000	A	15
0026353	7W	GU5.3	3000	25	12	460	61	1800	25,000	A	15
0026342	7W	GU5.3	3000	40	12	460	61	900	25,000	A	15
0026354	7W	GU5.3	4000	40	12	460	61	900	25,000	A	15
RefLED Superia MR16 7W 345LM											
0026341	7W	GU5.3	2700	40	12	345	49	600	25,000	A	15
0026306	7W	GU5.3	3000	25	12	345	49	1200	25,000	A	15
0026340	7W	GU5.3	3000	40	12	345	49	600	25,000	A	15
0026351	7W	GU5.3	4000	40	12	345	49	600	25,000	A	15

RefLED MR16 5.5W 345LM

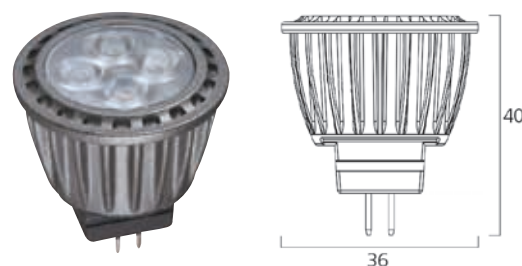
- Up to 90% energy saving comparing to halogen
- High light output - real retrofit for the halogen lamps
- Average rated life of 15,000 hours
- Perfect shape and size for a perfect fit in your luminaire
- Available in different colour temperatures: 3000K Warm white and 4000K
- Highly efficient - up to 71lm/W



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
345lm- 35W Halogen Replacement											
0026634	5.5W	GU5.3	3000	36	12 AC/DC	345	58	950	15,000	A+	6
0026635	5.5W	GU5.3	4000	36	12 AC/DC	345	58	950	15,000	A+	6

RefLED MR11 3,5W 185LM

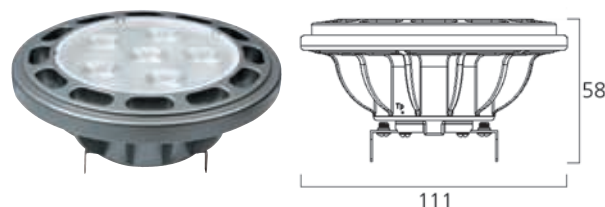
- High light output of 185 useful lumens = 20W MR11 Halogen
- 3.5W/12V AC/DC - save over 80% energy
- Long lifetime 25,000 hours
- Available in 3000K
- High Power Factor - 0.9



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED MR11 3,5W 185LM												
0026410	3.5W	GU4	3000	30	No	12	185	53	550	25,000	A+	10

RefLED+ AR111 10W 515LM DIMMABLE

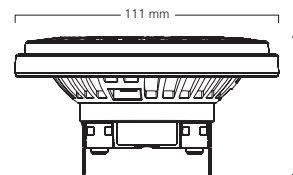
- 10W low energy consumption product with low maintenance costs
- High colour rendering - CRI 80
- High light output of 515 useful Lumens = 55W AR111 Halogen
- High Power Factor - 0.9
- Same physical size as Halogen AR111 lamps
- Dimmable on approved dimmers
- Average rated life 50,000 hrs



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
RefLED+ AR111 10W 515LM Dimmable												
0026403	10W	G53	3000	25	Yes	12	515	52	2150	50,000	A	6
0026402	10W	G53	3000	40	Yes	12	515	52	1300	50,000	A	6

RefLED Superia AR111 50W equivalent Dimmable

- Direct replacement of 50W, 75W and 100W Halogen AR111 lamps.
- 6.5W 450lm, 10W 750lm and 13W 905lm - Up to 85% energy saving compared to standard halogen lamps
- High colour rendering - CRI 80
- Dimmable on approved dimmers*
- Available in different colour temperatures: 3000K Warm and 4000K Cool white
- High efficacy: up to 74lm/W
- Lifetime of 50,000 hours
- High Power Factor - 0.9
- 5 Years Warranty
- Very low glare just like a halogen lamp



6.5W
= 450lm

50W

10W
= 740lm

75W

13W
= 905lm

100W

G53

3000K
4000K

25°
40°

A+

DIMMABLE



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
450lm - 50W Halogen equivalent - Dimmable												
0026411	6.5W	G53	3000	25	Yes	12	450	50	2000	50,000	A+	6
0026412	6.5W	G53	3000	40	Yes	12	450	50	1000	50,000	A+	6
0026413	6.5W	G53	4000	25	Yes	12	450	50	2000	50,000	A+	6
0026414	6.5W	G53	4000	40	Yes	12	450	50	1000	50,000	A+	6
740 lm - 75W Halogen Equivalent - Dimmable												
0026417	10W	G53	3000	25	Yes	12	740	75	3200	50,000	A+	6
0026418	10W	G53	3000	40	Yes	12	740	75	1600	50,000	A+	6
905 lm - 100W Halogen equivalent - Dimmable												
0026421	13W	G53	3000	25	Yes	12	905	100	4000	50,000	A	6
0026422	13W	G53	3000	40	Yes	12	905	100	2000	50,000	A	6



PAR Range

- High light output for precision lighting
 - PAR20 – 7.5W 500Lm = 67W Halogen PAR20
 - PAR30 – 12.5W 900Lm = 104W Halogen PAR30
 - PAR38 – 18.5W 1300Lm = 153W Halogen PAR38
- 40'000 Hours average life
- Over 80% energy saving
- Up to 72Lm/W – A/A+ Energy Class
- Ideal for hospitality and retail display lighting
- Robust die-cast aluminium construction
- Superb colour consistency
- Perfect shape and size
- Dimmable on suitable dimmers



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
PAR20 - 67W Halogen PAR20 Replacement - Dimmable												
0026697	7.5	E27	3000	25	Yes	220-240	500	67	2500	40,000	A+	6
PAR30 - 104W Halogen PAR30 Replacement - Dimmable												
0026709	12.5	E27	3000	25	Yes	220-240	900	104	4600	40,000	A+	6
PAR38 - 153W Halogen PAR38 Replacement - Dimmable												
0026716	18.5	E27	3000	25	Yes	220-240	1300	153	7000	40,000	A	6

RefLED PAR16

- Over 80% energy saving compared to halogen lamps
- Suitable for retrofit replacement of incandescent and halogen PAR lamps (220-240V)
- 345Lm equivalent to 50W Halogen
- Available in Warm White (3000K)
- Good colour rendering (CRI=80)
- Average rated life: 15,000 hrs



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Candela (cd)	Life (h)	Energy Class	Sales Pack Size
PAR16 345Lm - 50W Halogen equivalent												
0026590	5W	E14	3000	36	No	220-240	345	69	950	15,000	A+	6

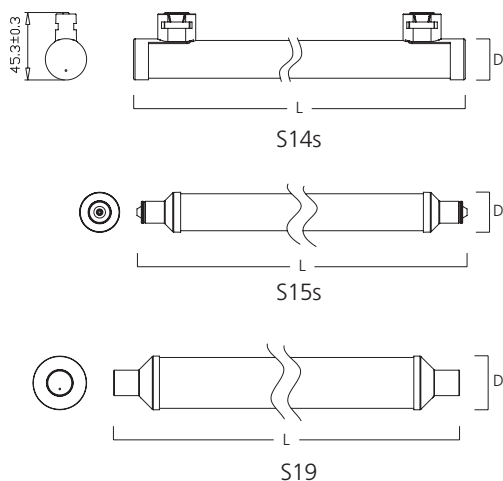
ToLEDo striplight

- Value for money
- Easy retrofit for your bathroom and kitchen fixture
- Energy saving incandescent retrofit LED lamp for shaver lighting and mirror lighting.
- Low power consumption to maximise energy saving potential
- 25000 hours life reducing maintenance costs
- Existing in different length and caps (S15s,S19,S14s)
- 3 Year warranty



Code	Watt (W)	Base	Colour in (Kelvin)	Bulb Finish	Dimmable	Voltage (V)	Useful lumen	Useful lm/W	Life (h)	Energy Class	Sales Pack Size
ToLEDO striplight											
0026837	3.5W	S14s	2700	Frosted	No	220-240	280	69	25,000	A+	6
0026838	4.5W	S14s	2700	Frosted	No	220-240	420	69	25,000	A+	6
0026840	3.5W	S15s	2700	Frosted	No	220-240	280	69	25,000	A+	6
0026842	3.5W	S15s	2700	Frosted	No	220-240	280	69	25,000	A+	6
0026843	6W	S19	2700	Frosted	No	220-240	530	69	25,000	A+	6

Dimensions (mm)



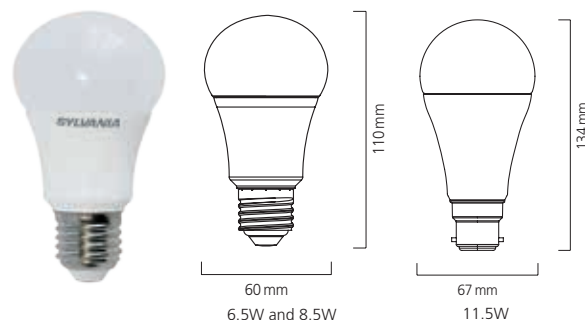
Dimensions (mm)

Lamp	L	D
0026837	300	26
0026838	500	26
0026840	221	26
0026842	284	26
0026843	310	38



ToLEDo GLS V2

- The best efficacy on the market 95lm/W for 60W replacement!
- Wide beam angle of 220 degrees!
- Equivalent of 40W, 60W and 75W incandescent lamps , dimmable and non dimmable options available
- Available in B22 and E27 caps in satin finish
- 2700K Homelight and 4000K Cool white
- Instant start
- Long lifetime 15,000 hours
- Short payback period
- Up to 85% energy savings compared to incandescent equivalent

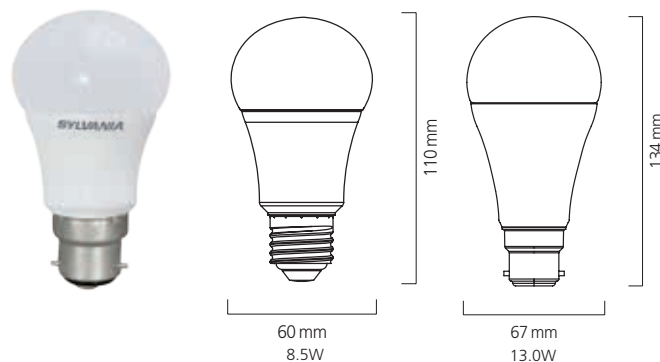


Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
470lm - 40W Incandescent replacement											
0026670	6.5	E27	2700	Yes	220-240	470	72	Frosted	15,000	A+	6
0026671	6.5	E27	2700	Yes	220-240	470	72	Frosted	15,000	A+	6
0026674	6.5	B22	2700	Yes	220-240	470	72	Frosted	15,000	A+	6
806lm - 60W Incandescent replacement											
0026672	8.5	E27	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
0026673	8.5	E27	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
0026669	8.5	E27	4000	Yes	220-240	806	95	Frosted	15,000	A+	6
0026675	8.5	B22	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
1055lm - 75W Incandescent replacement											
0026682	11.5	E27	2700	Yes	220-240	1055	93	Frosted	15,000	A+	6



ToLEDo GLS V2 Dimmable

- Wide beam angle of 220 degrees!
- Equivalent of 60W and 75W incandescent lamps without dimmable
- Available in B22 and E27 caps in satin finish
- 2700K Homelight
- Instant start
- Long lifetime 15,000 hours
- Short payback period
- Up to 85% energy savings compared to incandescent equivalent



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
806lm - 60W Incandescent replacement - Dimmable											
0026676	8.5	E27	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
0026677	8.5	B22	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
0026678	8.5	E27	2700	Yes	220-240	806	95	Frosted	15,000	A+	6
1055lm - 75W Incandescent replacement - Dimmable											
0026683	13.0	E27	2700	Yes	220-240	1055	84	Frosted	15,000	A+	6
0026684	13.0	B22	2700	Yes	220-240	1055	84	Frosted	15,000	A+	6



ToLEDo Candle

- Up to 85% energy saving compared to incandescent lamps
- Instant light at the flick of a switch
- Suitable for replacement of up to 25W and 40W incandescent lamps
- Uniform light distribution
- Clear lamps with virtual filament lens that creates sparkle
- Available in Standard Homelight (2700K)
- Good colour rendering (CRI 80+)
- Average rated life 25,000 hrs

Dimensions (MM)

E14	4W	4.5W	6.5W
L	104	112	112
D	38	38	38
B22	4W	4.5W	6.5W
L	103	-	110
D	38	-	38



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
250Lm - 25W Incandescent replacement											
0026915	3.7	E14	2700	No	220-240	250	63	Clear	25,000	A+	6
0026916	3.7	B15	2700	No	220-240	250	63	Clear	25,000	A+	6
0026917	3.7	B22	2700	No	220-240	250	63	Clear	25,000	A+	6
0026920	4	E14	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026961	4	E14	4000	No	220-240	250	63	Frosted	25,000	A+	6
0026921	4	B15	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026922	4	B22	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026923	4	E27	2700	No	220-240	250	63	Frosted	25,000	A+	6
250Lm - 25W Incandescent replacement - Dimmable											
0026919	4.5	E14	2700	Yes	220-240	250	56	Clear	25,000	A+	6
0026925	4.5	E14	2700	Yes	220-240	250	56	Frosted	25,000	A+	6
470Lm - 40W Incandescent replacement											
0026926	6.5	E14	2700	No	220-240	470	72	Clear	25,000	A+	6
0026931	6.5	E14	2700	No	220-240	470	72	Frosted	25,000	A+	6
0026932	6.5	B22	2700	No	220-240	470	72	Frosted	25,000	A+	6
0026933	6.5	E27	2700	Yes	220-240	470	56	Frosted	25,000	A+	6
470Lm - 40W Incandescent replacement - Dimmable											
0026928	6.5	E14	2700	Yes	220-240	470	72	Clear	25,000	A+	6
0026929	6.5	E27	2700	Yes	220-240	470	56	Clear	25,000	A+	6
0026930	6.5	B22	2700	Yes	220-240	470	56	Clear	25,000	A+	6
0026935	6.5	E14	2700	Yes	220-240	470	56	Frosted	25,000	A+	6



ToLEDo Bent Tip Candle

- Up to 85% energy saving compared to incandescent lamps
- Instant light at the flick of a switch
- Suitable for replacement of up to 25W and 40W incandescent lamps
- Uniform light distribution
- Clear lamps with virtual filament design
- Available in Standard Homelight (2700K)
- Good colour rendering (CRI 80+)
- Average rated life 25,000 hrs
- Bent tip shape to help create flame look finish

Dimensions (MM)

E14	3.7W	4W	6.5W
L	123	123	132
D	38	38	38



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
250Lm - 25W Incandescent replacement											
0026936	3.7	E14	2700	No	220-240	250	68	Clear	25,000	A+	6
0026937	4	E14	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026912	3.7	E14	2700	No	220-240	250	68	Clear	25,000	A+	6
470Lm - 40W Incandescent replacement											
0026938	6.5	E14	2700	No	220-240	470	72	Clear	25,000	A+	6
0026939	6.5	E14	2700	No	220-240	470	72	Frosted	25,000	A+	6
0026940	6.5	E14	2700	No	220-240	470	72	Frosted	25,000	A+	6

ToLEDo Ball

- Up to 84% energy saving compared to incandescent lamps
- Instant light at the flick of a switch
- Suitable for replacement of up to 40W incandescent lamps
- Available in Standard Homelight (2700K) and Cool White (4000K)
- Good colour rendering (CRI 80+)
- Average rated life 25,000 hrs

Dimensions (MM)

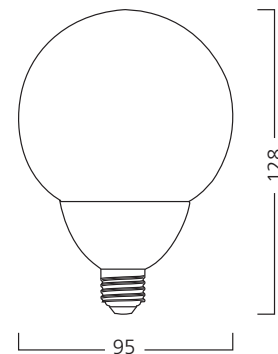
E14	4W	4.5W	6.5W
L	80	89	89
D	45	45	45
B22	4W	4.5W	6.5W
L	79	-	87
D	45	-	45
E27	4W	4.5W	6.5W
L	79	87	87
D	45	45	45



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
250Lm - 25W Incandescent replacement											
0026949	4	E27	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026950	4	E14	2700	No	220-240	250	63	Frosted	25,000	A+	6
0026953	4	B22	2700	No	220-240	250	63	Frosted	25,000	A+	6
250Lm - 25W Incandescent replacement - Dimmable											
0026941	4.5	E14	2700	Yes	220-240	250	56	Clear	25,000	A+	6
0026942	4.5	E14	2700	Yes	220-240	250	56	Frosted	25,000	A+	6
0026943	4.5	E27	2700	Yes	220-240	250	56	Frosted	25,000	A+	6
470Lm - 40W Incandescent replacement											
0026948	6.5	E27	2700	No	220-240	470	72	Frosted	25,000	A+	6
0026954	6.5	E27	2700	No	220-240	470	72	Frosted	25,000	A+	6
0026955	6.5	B22	2700	No	220-240	470	72	Frosted	25,000	A+	6
470Lm - 40W Incandescent Replacement - Dimmable											
0026945	6.5	E14	2700	Yes	220-240	470	72	Clear	25,000	A+	6
0026946	6.5	E14	2700	Yes	220-240	470	72	Frosted	25,000	A+	6
0026947	6.5	E27	2700	Yes	220-240	470	72	Frosted	25,000	A+	6

ToLEDo GLOBE

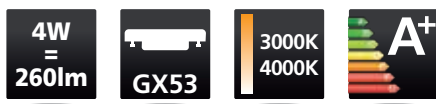
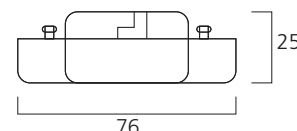
- Up to 80% energy saving compared to incandescent lamps
- Instant light
- 100% retrofit - Same dimensions as incandescent equivalent
- Suitable for replacement of up to 60W incandescent lamps
- Available in Homelight (2700K)
- Good colour rendering (CRI 80+)
- Average rated life up to 15,000 hrs



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo Globe G95											
0026911	9.5W	E27	2700	No	220-240	806	85	Frosted	15,000	A	6

ToLEDo MICRO-LYNX LED

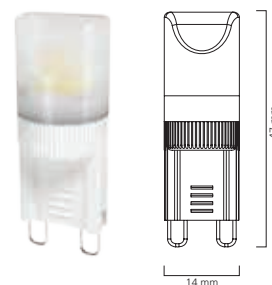
- High lumen output: 260lm (4000K)
- 3000K Warm white, 4000K Cool White
- Instant start
- Clear or frosted finish
- Compatible with Lumiance Insaver & Microsaver (Recessed, Semi-Recessed & Surface mounted)
- Average rated life 15,000 hrs



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Luminous Flux	lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
Micro-Lynx LED												
0026780	4W	GX53	3000	NA	No	220-240	250	63	Clear	15,000	A+	6
0026781	4W	GX53	4000	NA	No	220-240	260	65	Clear	15,000	A+	6
0026783	4W	GX53	3000	NA	No	220-240	250	63	Frosted	15,000	A+	6
0026666	4W	GX53	4000	NA	No	220-240	260	65	Frosted	15,000	A+	6

ToLEDo G9

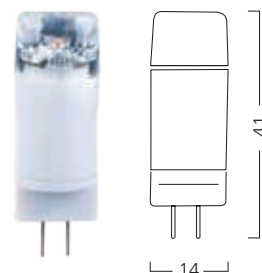
- Easy installation with G9 plug-in-base
- 100% Retrofit: direct replacement of Halogen
- Up to 80% energy saving vs. existing Halogen lamp
- Comes in 2700K Homelight
- Long lifetime of 25,000 hours
- Benefits from a good light distribution
- Suitable for use in open luminaire following Lumi naire standard EN 60598-1



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo G9											
0126730	1.5W	G9	2700	No	220-240	80	53	Frosted	25,000	A+	6

ToLEDo G4

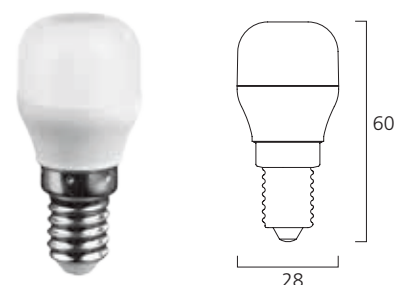
- Up to 80% energy saving compared to halogen lamps
- 100% retrofit - compact size for existing fittings
- Uniform light distribution
- Available in Homelight (2700K)
- Average rated life up to 25,000 hrs



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo G4											
0026502	0.8W	G4	2700	No	12	60	75	Frosted	25,000	A++	6
0026504	2.2W	G4	2700	No	12	140	70	Frosted	15,000	A++	6

ToLEDo PYGMY

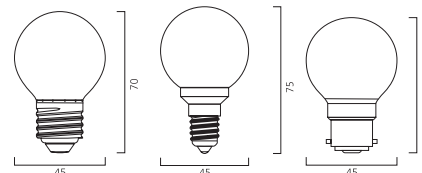
- 100% retrofit: direct incandescent lamp replacement
- E14 cap
- Robust compact size
- IP65 lamp: water and dust resistant
- Satin finish
- Long lifetime 15.000 hours
- Very low energy consumption
- 3000K Warm white
- Excellent light effect and colour rendering (Ra 90)



Code	Watt (W)	Base	Colour in (Kelvin)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo Pygmy 1,5W											
0026510	1.5W	E14	3000	No	220-240	60	40	Frosted	15,000	A+	6
0026508	0.8W	E14	3000	No	220-240	36	45	Frosted	15,000	A++	6

TOLEDO OUTDOOR BALL

- Ideal for festoon lighting and festive Christmas decorations
- Instant light at the flick of a switch
- Suitable for replacement of up to 25W incandescent lamps
- Uniform light distribution
- Available in different colors: yellow, red, orange, white, green and blue and available in all caps types B22, E27 and E14
- Average rated life 25,000 hrs
- Packed in individual boxes



Code	Watt (W)	Base	Colour name	Dimmable	Voltage (V)	Finish	Life (h)	Sales Pack Size
B22 base								
0026880	0.5W	B22	Blue	No	220-240	Frosted	25,000	6
0026881	0.5W	B22	Green	No	220-240	Frosted	25,000	6
0026882	0.5W	B22	Red	No	220-240	Frosted	25,000	6
0026883	0.5W	B22	Cool white (740)	No	220-240	Frosted	25,000	6
0026884	0.5W	B22	Yellow	No	220-240	Frosted	25,000	6
0026895	0.5W	B22	Orange	No	220-240	Frosted	25,000	6
E27 base								
0026885	0.5W	E27	Blue	No	220-240	Frosted	25,000	6
0026886	0.5W	E27	Green	No	220-240	Frosted	25,000	6
0026887	0.5W	E27	Red	No	220-240	Frosted	25,000	6
0026888	0.5W	E27	Cool white (740)	No	220-240	Frosted	25,000	6
0026889	0.5W	E27	Yellow	No	220-240	Frosted	25,000	6
0026896	0.5W	E27	Orange	No	220-240	Frosted	25,000	6
E14 base								
0026890	0.5W	E14	Blue	No	220-240	Frosted	25,000	6
0026891	0.5W	E14	Green	No	220-240	Frosted	25,000	6
0026892	0.5W	E14	Red	No	220-240	Frosted	25,000	6
0026893	0.5W	E14	Cool white (740)	No	220-240	Frosted	25,000	6
0026894	0.5W	E14	Yellow	No	220-240	Frosted	25,000	6
0026897	0.5W	E14	Orange	No	220-240	Frosted	25,000	6



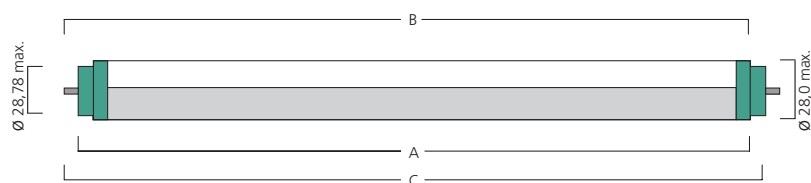
ToLEDo SUPERIA TUBE T8

- Retrofit for T8 luminaires, easy plug and play solution for magnetic ballasts
- Made in Germany to the highest quality standards
- High colour rendering (CRI 80+)
- High power factor 0.95
- Highly robust, click together construction -
- Available in three colour temperatures (3000K-4000K- 6500K)
- Instant light, allows better utilisation of lighting control and even greater energy saving
- 100° rotating end cap allows light to be directed
- Locking system prevents tubes from rotating, even in high vibration areas
- 130° beam angle on frosted lamps
- Low temperature operation, not impacted by the cold (-30C to +50C)
- Average rated life 50,000 hours
- Suitable for use in Sylproof Superia IP65
- Also available in clear finish (4ft and 5ft)
- 5 years guarantee for complete peace of mind



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Luminous Flux	lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo Superia Tube T8 2FT - 600mm												
0027020	11	G13	3000	130	No	220-240	1150	105	Frosted	50,000	A+	6
0027021	11	G13	4000	130	No	220-240	1200	109	Frosted	50,000	A+	6
0027022	11	G13	6500	130	No	220-240	1250	114	Frosted	50,000	A+	6
ToLEDo Superia Tube T8 4Ft - 1200mm												
0027023	26	G13	3000	130	No	220-240	2500	96	Frosted	50,000	A+	6
0027024	26	G13	4000	130	No	220-240	2600	100	Frosted	50,000	A+	6
0027032	26	G13	4000	130	No	220-240	2900	112	Clear	50,000	A+	6
0027025	26	G13	6500	130	No	220-240	2650	102	Frosted	50,000	A+	6
ToLEDo Superia T8 Tube 5FT- 1500mm												
0027026	32	G13	3000	130	No	220-240	3100	97	Frosted	50,000	A+	6
0027027	32	G13	4000	130	No	220-240	3200	100	Frosted	50,000	A+	6
0027033	32	G13	4000	130	No	220-240	3200	100	Clear	50,000	A+	6
0027028	32	G13	6500	130	No	220-240	3300	103	Frosted	50,000	A+	6

DIMENSIONS (MM)



	A	B	C
2ft			
Min	-	594.5	-
Max	598.8	596.9	604.0
4ft			
Min	-	1204.1	-
Max	1199.4	1206.5	1213.6
5ft			
Min	-	1504.7	-
Max	1500.0	1507.1	1514.0

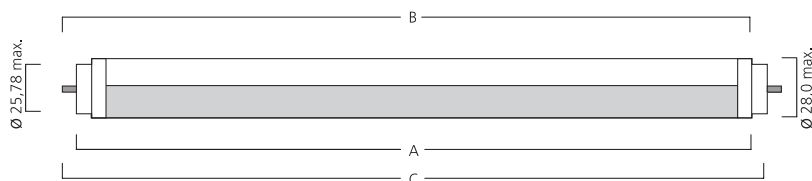
TOLEDO+ TUBE T8

- Retrofit for T8 lamps, easy plug and play solution for magnetic ballast systems
- Low power consumption to maximise energy saving potential - up to 100lm/W
- Reduced maintenance costs due to average rated life of 40,000 hours
- High light output up to 2200lm
- Made In Germany to highest standards of reliability
- High colour rendering - CRI >80
- Instant light - Ideal for use on PIR enabling even greater energy savings
- 100° rotating end caps - ensures light is directed where needed
- Highly robust construction
- 120° light distribution with Low glare
- High power factor 0.95
- 3 year warranty



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Luminous Flux	Lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLEDo+ Tube T8 2FT - 600mm												
0027060	9	G13	3000	120	No	220-240	850	94	Frosted	40,000	A+	6
0027061	9	G13	4000	120	No	220-240	900	100	Frosted	40,000	A+	6
0027062	9	G13	6500	120	No	220-240	900	100	Frosted	40,000	A+	6
ToLEDo+ Tube T8 4FT - 1200mm												
0027066	18	G13	3000	120	No	220-240	1700	94	Frosted	40,000	A+	6
0027067	18	G13	4000	120	No	220-240	1800	100	Frosted	40,000	A+	6
0027068	18	G13	6500	120	No	220-240	1800	100	Frosted	40,000	A+	6
ToLEDo+ T8 Tube 5FT - 1500mm												
0027069	23	G13	3000	120	No	220-240	2100	91	Frosted	40,000	A+	6
0027070	23	G13	4000	120	No	220-240	2200	96	Frosted	40,000	A+	6
0027071	23	G13	6500	120	No	220-240	2200	96	Frosted	40,000	A+	6

DIMENSIONS (MM)



2ft	A	B	C
Min	-	594.5	-
Max	598.8	596.9	604.0
4ft	A	B	C
Min	-	1204.1	-
Max	1199.4	1206.5	1213.6
5ft	A	B	C
Min	-	1504.7	-
Max	1500.0	1507.1	1514.0

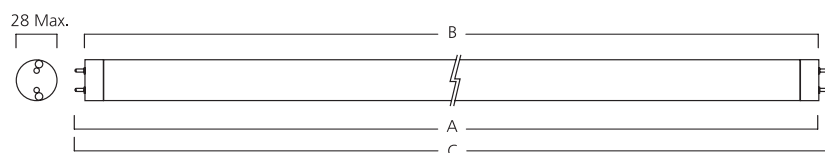
ToLED^o TUBE T8

- Great value for money
- Retrofit for T8 lamps, easy plug and play solution for magnetic ballast systems
- Low power consumption to maximise energy saving potential
- 30000 Hours life - reduced maintenance costs
- Lumen output up to 2700lm with high efficacy up to 90lm/W
- High colour rendering - CRI >80
- Instant light - Ideal for use on PIR enabling even greater energy savings
- Highly robust construction
- High power factor 0.95
- 3 Year warranty



Code	Watt (W)	Base	Colour in (Kelvin)	Beam (°)	Dimmable	Voltage (V)	Luminous Flux	lm/W	Finish	Life (h)	Energy Class	Sales Pack Size
ToLED ^o Tube T8 2ft - 600mm												
0027090	9	G13	4000	130	No	220-240	800	89	Frosted	30,000	A+	10
ToLED ^o Tube T8 4ft - 1200mm												
0027091	18	G13	4000	130	No	220-240	1600	89	Frosted	30,000	A+	10
ToLED ^o Tube T8 5ft - 1500mm												
0027092	22	G13	4000	130	No	220-240	2000	91	Frosted	30,000	A+	10
ToLED ^o Tube T8 6ft - 1800mm												
0027093	30	G13	4000	130	No	220-240	2700	90	Frosted	30,000	A+	10

Dimensions (mm)



Dimensions (mm)

2ft	A	B	C
Max	598.8	596.5	604.0
4ft	A	B	C
Max	1199.4	1206.5	1213.6
5ft	A	B	C
Max	1500.0	1499.8	1514.2
6ft	A	B	C
Max	1763.8	1770.9	1778.0



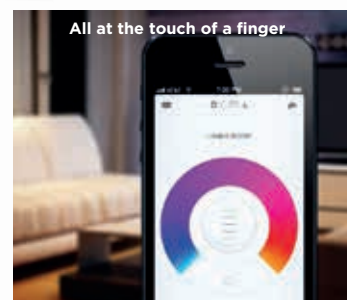
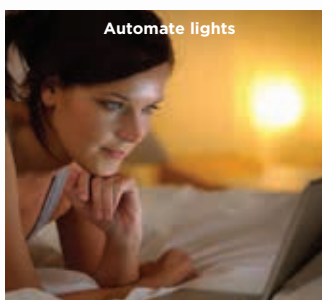
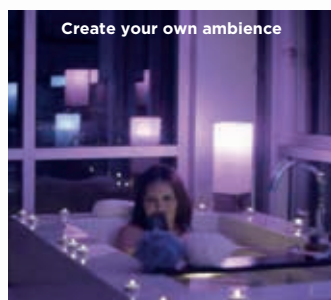
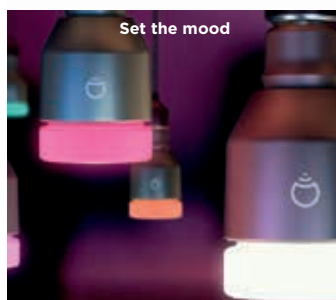


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The lightbulb reinvented

LIFX is a Wi-Fi enabled, multi-colour, energy efficient LED lamp that you can control with your smartphone.



Colour affects our moods, our sense of wellbeing and our ability to focus or relax. Imagine being able to transform the ambience of your environment using just your smartphone.

Now with LIFX you can:

- **Switch to smart lighting easily - no hub needed**
- **Set scenes, create moods**
- **Select up to 16 million colours**
- **Make your lighting last up to 20 years**
- **Save up to 80% energy**
- **Integrate into home automation - works with Google Nest**

For more information please visit www.havells-sylvania.com/lifx
Tel: 0870 606 2030



Dimming compatibility

Not tested for this transformer																						
Good dimming, possible some light flickering on low light levels.																						
Dimming not possible.																						
Dimming isn't very smooth / flickering possible during a portion of the dimmer																						
2,3 Minimum 2 or 3 lamps needed connected to 1 dimmer (one transformer for 4)																						
Not tested																						
Remarks : The tests were conducted on 1 dimmer in our Lab. Results can differ on other dimmer. Information presented is for guidance purposes only. E & O.E																						
Brand	nr	Model	Max Load (Incand eccent)	Type	Load type	Eg. Code	Transformer	RefLED Coolfit E550 345lm	RefLED+ E550 345lm	RefLED+ E550 450lm	RefLED E550 V2 dim 345lm	RefLED PAR20 450lm	RefLED PAR30 900lm	RefLED PAR30 1200lm	RefLED Superia AR111 DIM 450m	RefLED Superia AR111 DIM 240m	RefLED Superia AR111 DIM 905m	ToLEDa Candle/Ball 250lm/4700m Frosted	ToLEDa Candle/Ball 250lm/4700m Clear	ToLED+ G5 470m 7.5W Gen 1	ToLED+ G5 R80m 12.5W Gen 1	ToLED+ G5 R80m 5.9W Gen 2
ABB/Busch-Jaeger	24	2210	400	Rotary	R	Finland																
		2247U	500	Rotary	RL	Finland																
	4	2250U	600	Rotary	R	Greece																
	20	6513U	420	Rotary	RC	Finland																
		6591U-101	420	Rotary	RLC	Europe																
	87	6523U	100	Rotary	RL	Netherlands																
AURORA	10	AU-DSF400X	400	Rotary	RL	UK																
Berker	44	286710	360	Rotary	RC	Germany																
	127	8542 1200	400	Push	RLC																	
	128	283010	400	Rotary	R	Germany																
Bicino	104	AM5707	250	Push	C	Italy																
	108	L4402N	500	Rotary	R	Italy																
	109	N4401	500	Rotary	RL	France																
	111	N4407N	200	Push	RC	France																
	113	N4409N	200	Push	RLC	France																
Clipsal	28	332450LM	450	Rotary	RL	Australia																
		E2031LP0600	600	Push	R	Europe																
		E3031HD	600	Push	RLC	Europe																
		KB31RD400	400	Push	R	Australia																
	29	332450TM	450	Rotary	RC	Australia																
		E8431EP04	450	Push	RLC	HongKong																
Danlers	18	DQDGD	400	Push	RC	UK																
		DS56D MK400W	400	Push	RLC	UK																
Dayco&Tratt	41	400W/VA (QP4001W) 1202038	400	Rotary	RC	UK																
	43	P250 (TOP251W) 1010024	250	Rotary	R	UK																
	43	P400 (TOP401W) 1110085	400	Rotary	R	UK																
	43	P500 (TOP501W) 1109021	500	Rotary	R	UK																
	44	R250 (TOP251W) 1109025	250	Rotary	R	UK																
	7	20401M2120201400W	400	Push	RC	UK																
	7	20401M1C-C	400	Touch	RC	UK																
	10		850	Rotary	RC	UK																
Eaton	77	CD4E-01/02	250	Din	RC	Austria																
	77	CD4U-01/02	250	Din	RC	Austria																
	77	CD4U-01/03	125	Din	RC	Austria																
Elapel	20	21211	500	Rotary	R	Spain																
Elmop	66	ECODIMR20/921		Din	RC	Belgium																
ELUX	17	E1G700DA	300	Rotary	RL	Europe																
Elko	21	315GLE	315	Rotary	RC	Sweden																
		RS16/300GL/BA	300	Push	RL	Europe																
		630GLE	630	Rotary	RC	Europe																
	13	RS16/400GL PH	400	Rotary	RL	Sweden																
Elzako	41	EUD61NPN-UC	400	Din	RLC	Sweden																
Feller (Schneider)	16	31000RL	1000	Rotary	RL	Switzerland																
	16	40300RC	300	Rotary	RC	Switzerland																
	16	40420RLC	420	Rotary	RLC	Switzerland																
	16	40600RC	600	Rotary	RC	Germany																
	16	40600RL	600	Rotary	RL	Switzerland																
Finder	16	15.81	500	Din	RLC	Italy																
	16	15.91	100	Din	R	Italy																
Fuga	16	1067003133(MEK-5300C8)	300	Touch	RC	Denmark																
	16	1067003146(MEK-5300U8)	300	Touch	RLC	Denmark																
	16	1067003086(TOUCH R350U/N)	350	Touch	RLC	Denmark																
Gira	11	030200/01	600	Rotary	R	Germany																
	11	030700/02	520	Rotary	RC	Germany																
	11	117600/03	420	Rotary	RLC	Germany																
	11	226200/01	500	Rotary	RL	Netherlands																
	11	226300/00	260	Push	RLC	Germany																
HAGER	17	EVN004	500	Din	RLC	UK																
	17	EVN011	300	Din	RLC	France																
	17	EVN012	300	Din	RLC	France																
		WH03002	Rotary	RC	Europe																	
		WH03401	Rotary	RC	Europe																	
	128	THA210AN	300	Din	RLC																	
Hamilton	16	HDP-250	250	Rotary	R	UK																
	16	HDP-400	400	Rotary	R	UK																
	16	H-GDM250W/VA	250	Rotary	RLC	UK																
	16	H-GDMTM250	250	Push	RLC	UK																
	16	L400/2 VER02	400	Rotary	R	UK																
iang	16	225WDEL	500	Rotary	RL	Germany																
	16	225TDE	525	Rotary	RC	Germany																
	16	243EX	360	Rotary	RC	Germany																
	16	266GDE	600	Rotary	R	Germany																
Kopp	16	8072.0000.7	275	Rotary	RC	Germany																
	16	8078.1308.1	300	Rotary	RC	Germany																
LAP	17	VKM4006	400	Rotary	R	UK																
Legrand	1	770074	600	Push	RL	Greece																
	17	670.84	400	Push	R	France																
	17	67083 / 67085 Cellane	300	Push	RLC	France																
	17	784.01	400	Push	R	France																
	17	CAT 400L	400	Rotary	RL	Australia																

26

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