



Enjoy hygienic, insect free environments

Insect Control Range

About us: Sylvania's insect attraction expertise

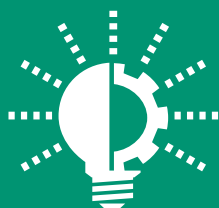
SpeciaLITE®
insect control

Airborne insects such as the common house fly, wasps, midges, etc. can each carry up to 4 million bacteria. The potential for contamination occurs wherever they land, and their presence is unacceptable in areas of hygiene.

Sylvania manufactures a powerful arsenal of UV-A lamps to attract these insects so that they can be destroyed. The product range includes numerous shapes, sizes and different spectra to suit every application. UV-A lamps enjoy numerous spin-off applications in other industries as well. One of the most important is to be found in the cosmetics business, where UV-A tubes are employed in the gel method of professional fingernail curing.

Innovation:

Over 20 years' experience within the UV Insect control market.



Specialist expertise:

Special products R&D centre of excellence in Europe



Collaboration:

Working with you closely to provide the correct product for your business



Quality:

Premium lighting solutions which maximises the flying insect attraction of your fixture



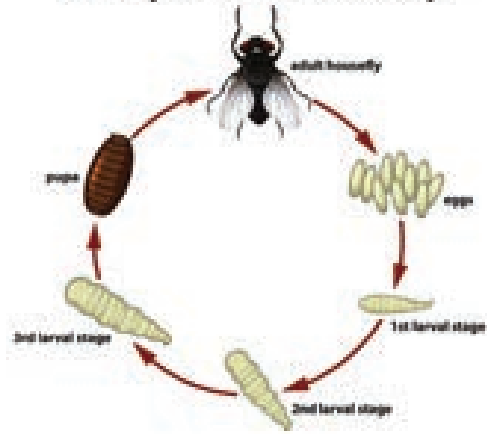
Blacklight lamps



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Insect Trapping

Life Cycle of a Housefly



How does it work?

All insect traps rely on the fundamental phenomenon that flying insects are attracted to long wave UV-A radiation. However, in order to maximise the efficiency of traps, we need a deeper understanding of when and why insects are attracted.

To take the example of houseflies, the process starts with the preparation for birth of the baby insects. The female housefly lays her eggs in a dark and damp place. The choice of location is very important, because the newly born insects are especially prone to dehydration. Indeed, after hatching, they can only venture out in the absence of solar rays, which would cause dehydration and death.

Since they can emerge only in the dark, their eyes have evolved to be especially sensitive to the low level UV-A nighttime radiation. Natural instinct drives them towards better lit areas where they can see more easily, and these can be produced artificially with the aid of UV-A lamps.

As the young insect matures, its resistance to the perils of dehydration begins to strengthen. Eventually it is capable of flying in the early evening under greater levels of sunlight, and its eyes begin to lose their UV sensitivity. Clearly then, the efficiency of UV traps works best with younger insects.

The harmful effects of insects

Flying insects have an appetite for our leftovers – satisfying their hunger on rotting organic matter. During feeding the insects pick up pathogenic substances, and will subsequently spread them everywhere they land. Many of these pathogens are particularly harmful to humans:

- Streptococci cause infections of the digestive system and skin.
- Campylobacter leads to dangerous intestinal infections.
- Chlamydia parasite nests inside us causing serious ill health.
- Klebsiella causes painful infection of the urinary tracts, and respiratory system.

However, it's not only flying creatures which have to be targeted. Just as harmful are the flour beetle, the bread weevil, the Trogoderma (warehouse beetle) and the Tigola. Constant protection of the critical areas is of great importance. In order to minimise these harmful effects, certain guidelines and regulations have been established in many countries. The best example is the HACCP-system.



HACCP

What is HACCP?

HACCP (Hazard Analysis Critical Control Points) is a hygienic means of controlling and monitoring aimed at safeguarding the health of the consumer.

Business categories covered by the standard

It is a legal obligation to provide adequate protection in all businesses which manufacture, prepare, process, package, store, transport, handle, sell or supply foodstuffs to the consumer.

For example:

- restaurants
- bars, confectioners
- food, fruit and vegetable resellers
- grocers, delicatessens
- butchers, fishmongers
- bakers
- chemists



Where does the standard apply?

Analysis of the relevant business operation will reveal a number of critical areas, where laws demand that specified controls must be implemented. The HACCP approach is a scientific method to prevent and discover the causes of any particular problem, for instance:

- It identifies and minimises the risks of food contamination
- It facilitates the execution of formal inspections
- It promotes a system of open and transparent competition with consumer protection as the objective
- It applies not only to finished goods but the whole production cycle



Blacklight BL368 - Linear & Circline

Sylvania's UV-A lamps provide premium high performance with excellent insect attraction efficiency.

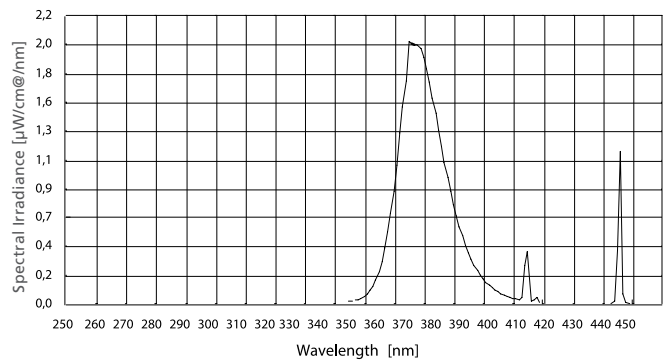
1. The energy distribution of the BL368 lamp is a much narrower band concentrated around the spectral peak at 368nm. This is widely accepted as the most important frequency for the attraction of flying insects. The radiation at 368nm is very powerful, and because of this the lamp attracts many more insects.
2. Furthermore, the depreciation of UV-A output over time is significantly reduced. After 5000 hours of operation, the lamp maintains 80% of its original 100% output. The result is that it performs longer and better throughout the season.

The lamps exist in linear, circline and compact versions. They are electrically and dimensionally equivalent to other fluorescent lamps of similar ratings.

Besides insect trapping they also enjoy widespread applications in diazo printing machines, chemical processing, photo polymerisation and mineral detection. A new application, mostly for compact lamps, is nail curing devices. Sylvania's compact BL-lamps guarantee that the drying process does not last longer than 2 minutes. The result is naturally shining and strong nails.

F15W/T8/BL 368

A) Spectral Irradiance vs. Wavelength



Wavelength range acc. to CIE
UVA : 315 – 400 nm
UVB : 280 – 315 nm

Directions for Use

Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m²) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m² depending on the wattage.

BL368 UV-A Linear & Circline Fluorescent lamps



Sylvania's BL368 Linear and Circline lamps are high performing UV-A lamps with a spectral peak at 368nm. This ensures a high level of attraction of flying insects.

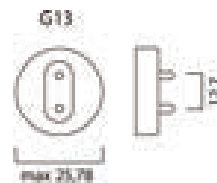
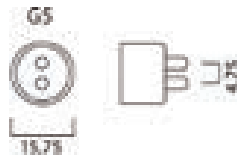
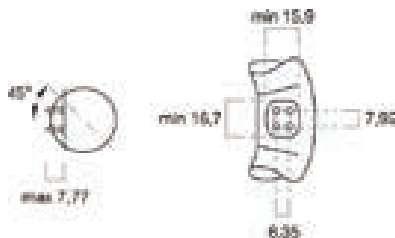
Features

- Concentrated UV-A light output in the spectrum between 368nm which matches flying insects eye sensitivity
- Low depreciation over the entire season
- Long life: 10,000hrs T5 & T12, 14,000hrs T8 and 8,000hrs Circline

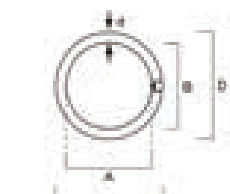
Product information

Code	Description	Watt (W)	Volt (V)	Current (A)	Light Colour	Cap	Packing Qty
T5							
0000089	F8W T5 BL368	8	56	0.145	BL368	G5	25
0000090	F15W T5 BL368	15	44	0.310	BL368	G5	25
T8							
0000082	F15 T8 BL368	15	55	0.310	BL368	G13	25
0000091	F18W T8 BL368 24"	18	57	0.370	BL368	G13	25
0000092	F36W T8 BL368 24"	36	50	0.865	BL368	G13	25
T9 Circline							
0000456	FC22 T9 BL 368 8"	22	62	0.400	BL368	G10q	12
0000100	FC32 T9 BL 368 8"	32	57	0.480	BL368	G10q	12
T12							
0000361	F20 T12 BL368 24"	20	57	0.370	BL368	G13	25
0001638	F40 T12 BL368 24"	40	47	0.880	BL368	G13	25

Dimensions (mm)

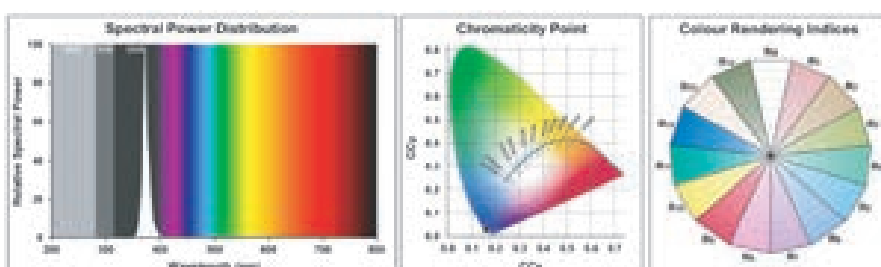


Tube dimensions		A Max (mm)	B Min (mm)	B Max (mm)	C Max (mm)	D Nominal (mm)
T5	8W, 15W	288.3	293	295.4	302.5	16
	15W	437.4	442.1	444.5	451.6	26
T8	18W, 36W	589.8	594.5	596.9	604	26
	20W, 40W	589.8	594.5	596.9	604	38



Circline dimensions		A Min (mm)	A Max (mm)	B Min (mm)	B Max (mm)	D Min (mm)	D Max (mm)	d Min (mm)	d Max (mm)
T9	22W, 32W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9

Photometric Data



Additional Images



BL368 UV-A Compact lamps



With their compact design Sylvania's BL368 Compact range are idea for use within slimline insect control fixtures commonly used in front-of house areas where fly control should be hidden from view.

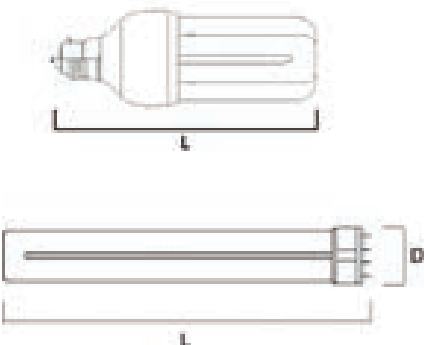
Features

- Concentrated UV-A light output in the spectrum between 368nm which matches flying insects eye sensitivity
- Low depreciation over the entire season
- Long life: 15,000hrs Lynx L, 8,000hrs Mini-Lynx

Product information

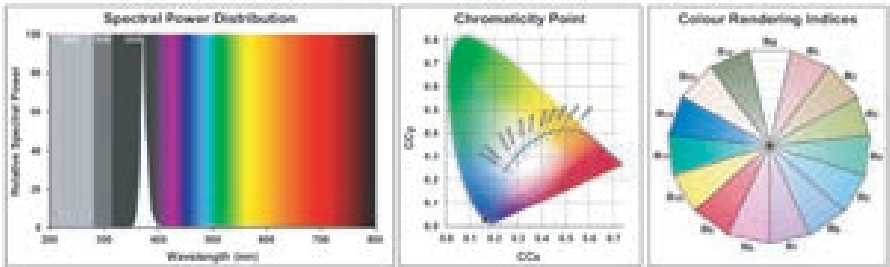
Code	Description	Watt (W)	Volt (V)	Current (A)	Light Colour	Cap	Packing Qty
UV-A Compact							
0025706	MiniLynx 20W BL368	20	230	0.16	BL368	E27	20
0025268	Lynx-L 18W BL368	18	58	0.375	BL368	2G11	10
0025710	Lynx-L 36W BL368	36	106	0.435	BL368	2G11	10

Dimensions (mm)

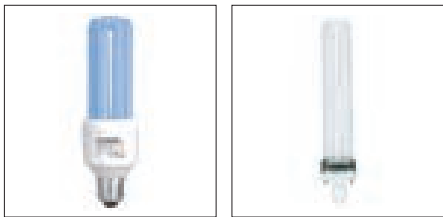


Dimensions		Length (mm)	Diameter (mm)
MiniLynx	20W	168	54
	18W	215	44
Lynx-L	36W	404	44

Photometric Data



Additional Images



Blacklight Toughcoat™

What are Toughcoat™ lamps?

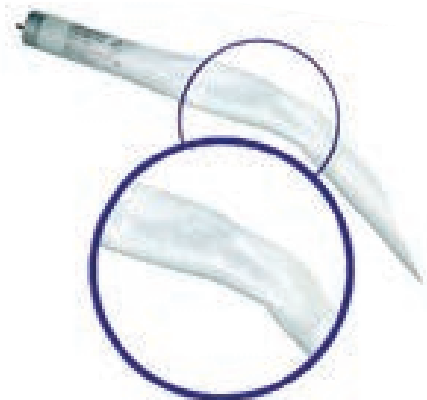
Toughcoat™ lamps are shatter resistant blacklight lamps ensuring excellent fragment retention in the event of breakage. The tubes are coated with Teflon FEP (fluorinated ethylene propylene). This coating differs from conventional PET (PolyEthylene Terphthalate) polymers in that it transmits 97% of the UV-radiation so as to maintain maximum insect attraction. FEP is also a much tougher material which will not become brittle as it ages.

What are Toughcoat™ lamps?

For many companies, especially those operating in the food area (also restaurants), the risk of glass and mercury contamination is real. Toughcoat lamps pay dividends in avoiding injury, contamination and loss of production time in case a lamp should be broken. Within the EU, Health and Safety regulations carry heavy penalties for avoidable injury of employees, making these lamps an especially sound investment, to meet the HACCP guidelines.

High quality 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



DIRECTION FOR USE

Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/m²) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL or BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m² depending on the wattage or about one-fifth of the limit.

BL368 UV-A Toughcoat™ Lamps



Toughcoat™ lamps are shatter resistant blacklight lamps ensuring excellent fragment retention in the event of breakage. The tubes are coated with Teflon FEP (fluorinated ethylene propylene). This coating differs from conventional PET (PolyEthylene Terphthalate) polymers in that it transmits 97% of the UV-radiation so as to maintain maximum insect attraction. FEP is also a much tougher material which will not become brittle as it ages.

DIRECTION FOR USE

Maximum exposure limits are set by EN60335-2-59:1997 at an effective 1,0 milliWatt per metre squared (1,0 mW/ m²) measured at a distance of 1 metre – originally based on the recommendations of the National Radiological Protection Board in the UK. The irradiance value for a single BL or BL368-lamp measured without reflector and/or fixture, in free air at 25 celsius, is varying between 0,2 and 0,4 mW/m²

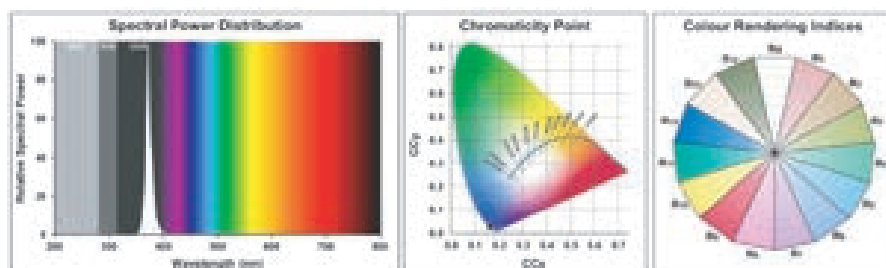
Features

- Safe
- High performance - High insect catch rate
- Optimised spectrum (BL368) for insects
- Compact version isi deal for slimline fixtures
- Circline version is easy fitting - Click-in base

Product information

Code	Description	Watt (W)	Volt (V)	Current (A)	Light Colour	Cap	Packing Qty
T5							
0001648	F8W T5 BL368 Toughcoat™	8	56	0.145	BL368	G5	25
T8							
0000124	F15W T8 BL 368 Toughcoat™	15	55	0.310	BL368	G13	25
0001664	F18W T8 BL368 Toughcoat™ 24"	18	57	0.370	BL368	G13	25
0001665	F36W T8 BL368 Toughcoat™ 24"	36	50	0.865	BL368	G13	25
T9 Circline							
0025721	FC22W T9 BL368 8" Toughcoat™	22	62	0.400	BL368	G10q	12
T12							
0000125	F20W T12 BL 368 Toughcoat™ 24"	20	57	0.370	BL368	G13	25
0000126	F40W T12 BL 368 Toughcoat™ 24"	40	47	0.880	BL368	G13	25
UVA-Compact							
0025715	MINILYNX 20W E27 BL368 Toughcoat™	20	230	0.16	BL368	E27	20
0025722	LYNX-L18W BL368 Toughcoat™	18	58	0.375	BL368	2G11	10
0025723	LYNX-L 36W BL368 Toughcoat™	36	106	0.435	BL368	2G11	10

Photometric Data



Additional Images



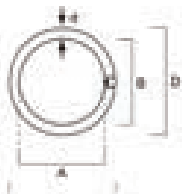
BL368 UV-A Toughcoat™ Lamps



Dimensions (mm)



Tube dimensions		A Max (mm)	B Min (mm)	B Max (mm)	C Max (mm)	D Nominal (mm)
T5	8W	288.3	293	295.4	302.5	16
	15W	437.4	442.1	444.5	451.6	26
T8	18W, 36W	589.8	594.5	596.9	604	26
	20W, 40W	589.8	594.5	596.9	604	38



Tube dimensions		A Min (mm)	A Max (mm)	B Min (mm)	B Max (mm)	D Min (mm)	D Max (mm)	d Min (mm)	d Max (mm)
T9	22W	149.1	155.6	147.6	157.2	203.2	215.9	26.2	30.9



Dimensions		Length (mm)	Diameter (mm)
MiniLynx	20W	168	54
	18W	215	44
Lynx-L	36W	404	44



T8 LED UV-A



Airborne insects such as the common house fly, wasps and midges can each carry up to 4 million bacteria. These insects can contaminate any surface they land on, making them an unacceptable presence in areas of hygiene.

Sylvania is a leader in the insect-trapping and UV-A lighting solutions market. We offer an extensive range of coated and non-coated lamps that attract insects. They can then be either destroyed or decontaminated in a humane fashion.

We have improved our T8 LED UV-A range to work in series operation, whilst meeting the same flycatch performance as Sylvania's fluorescent lamps. Its special frosted glass does not block UV or degrade transmission over its life.

Features

- Sylvania T8 LED UV-A tubes in 18" and 24" for flykilling applications
- Easy and safe replacement for fluorescent tubes without any rewiring required
- LED upgrade for installations with CCG/ magnetic fluorescent ballasts using a LED replacement starter (supplied)
- Suitable for direct mains operation
- Approx. 75% energy saving vs fluorescent originals
- Flycatch rate inline with Sylvania Fluo T8 after 180 mins*
- Special frosted glass tube does not block UV or degrade in transmission over life
- Acid etched glass delivers optimal beam distribution to maximise insect attraction
- Optimised UV spectrum to maximise insect attraction
- UV-A LED chip with peak emission at 370nm

Product information

Code	Description	Diameter (mm)	Total Length (mm)	Wattage (W)	Voltage (V)	Lamp Current (mA)	Beam angle (°)	Spectral peak (nm)	UV-A intensity (mW/m²) (Distance =1M)	Life (h)
Non-Coated										
0001685	T8 LED UV-A 24" 4.0W 230V PA	28	604	4.0	220-240	25	180	370	275	20,000
0001686	T8 LED UV-A 24" 6.5W 230V PA	28	604	6.5	220-240	40	180	370	400	20,000
Toughcoated										
0001687	T8 LED UV-A 18" 4.0W 230V PA TC	28	451	4.0	220-240	25	180	370	170	20,000
0001688	T8 LED UV-A 24" 4.0W 230V PA TC	28	604	4.0	220-240	25	180	370	235	20,000
0001689	T8 LED UV-A 24" 6.5W 230V PA TC	28	604	6.5	220-240	40	180	370	340	20,000

Dimensions (mm)



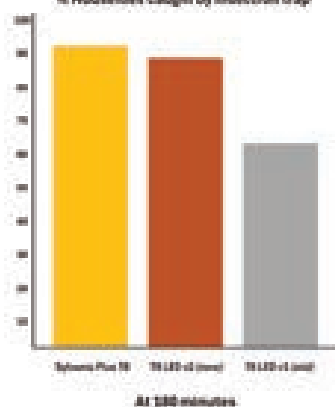
T8 LED UV-A 18"



T8 LED UV-A 24"

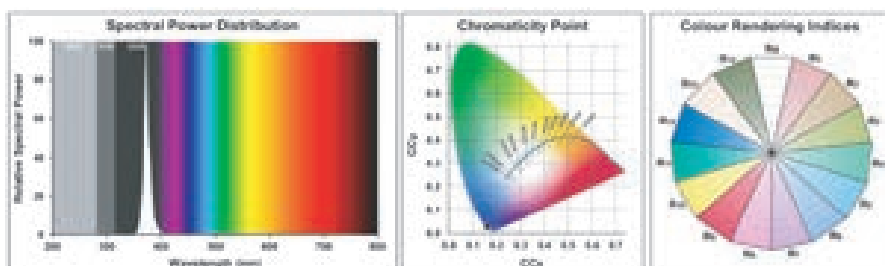
Flycatch performance

% Houseflies caught by insect trap

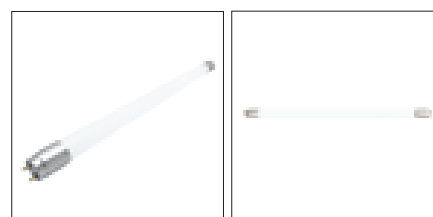


*Test undertaken by an independent test house March 24

Photometric Data



Additional Images



SYLVANIA



Although every effort has been made to ensure accuracy in the compilation of the technical detail within this publication, specifications and performance data are constantly changing. Current details should therefore be checked with Feilo Sylvania International Group Kft.

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