CONTENTS

The inPEST UV neon range includes both standard and **shatterproof** fluorescent tubes, which emit light at 368 nm. The shatterproof **neon tubes** are all coated in FEP to prevent fragments from scattering in the event of breakage.

IMPORTANT: annual replacement is recommended from the time of commissioning

P-06011NPH_Neon 15W Philips Standard

P-06011SPIN_Neon 15W inPEST Shatter-FEP

P-06029SP_Neon 18W Philips Shatter-FEP

P-06016NASP_Neon 20W Narva Shatter-FEP

P-06062SP_Neon 36W Philips Shatter-FEP

P-06017NASP_Neon 40W Narva Shatter-FEP

P-06018_Neon 18W Sylvania Lynx CF-L BL368 standard

P-06181SP_Neon 18W BL368 Lynx Shatterproof (FEP) PHILIPS

P-06132_Neon 36W Sylvania Lynx CF-L BL368 Standard

P-06171SP_Neon 36W BL368 Lynx Shatter-FEP Philips

P-06129_Neon 20W Sylvania Mini Lynx CFL 20W T4 3U BL368

P-06125SP_Neon 20W Sylvania Mini Lynx CFL 20W T4 3U BL368 Shatter-FEP

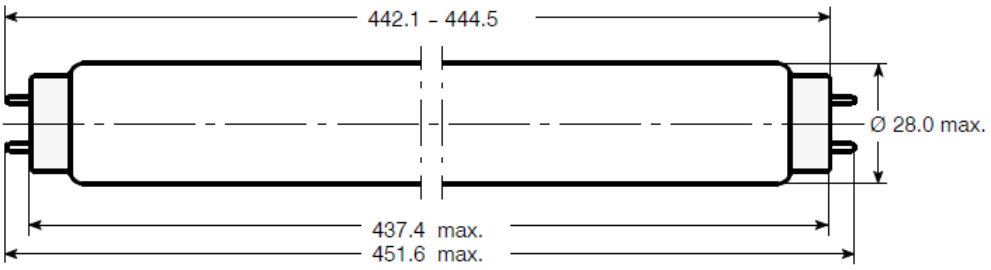
P-06130_Starter FS 22

TECHNICAL DATA SHEET

1. TRADE NAME: **15W STRAIGHT BL368 NM TUBE PHILIPS (F15W T8 BL368)**

2. PRODUCT CODE: **P-06011NPH**

3. PICTURE:



Product	D (max)	A (max)	B (max)	B (min)	C (max)
Actinic BL TL-D 15W/10 1SL/25	28 mm	437.4 mm	444.5 mm	442.1 mm	451.6 mm

4. TECHNICAL SPECIFICATIONS:
Fluorescent Philips-branded UV tube FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Cap base: G13
- Mercury (Hg) content (nom.): 5 mg
- Combustibility rating: none
- Life to 50% failures (Nom): 8.000 h.
- Useful life (Nom): 9.000 h.
- UV depreciation at 2000 h: 10%
- UV depreciation at 5000 h: 15%
- UV depreciation at 8000 h: 20%

Size: as in the picture.

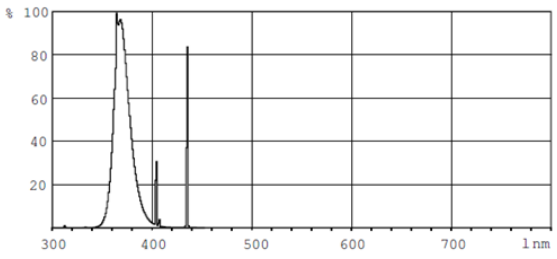
Electrical data-nominal value:
- UV-A radiation 100 hours (IEC): 3,9 W
- UV-B/UV-A (IEC): 0,2%
- Power: 15W
- Voltage: 55V
- Lamp current: 0,34 A

TECHNICAL DATA SHEET

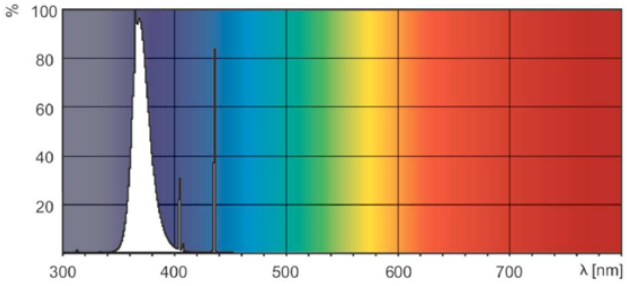
The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

Note: after the installation of tube inside lamp, a flickering/swirling effect can sometimes be experienced when operated on certain electro-magnetic control ballasts. This effect disappears within the first 20 minutes of illumination. Permanent correction can simply be made by switching lamp off and back on again after a few seconds.
This experience in no way compromises tube service life or UV output.

Photometric data



XDPB_XUBTLD_10-Spectral power distribution B/W



XDPO_XUBTLD_10-Spectral power distribution Colour

5. PACKAGING AND SPARE PARTS:

- Outer carton: 25 pieces (sales unit).

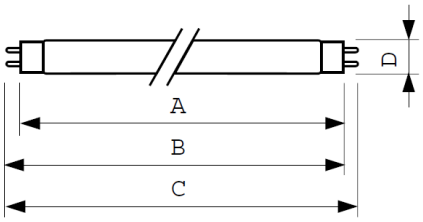
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **15W STRAIGHT BL368 NM TUBE SHATTERPROOF INPEST**

2. PRODUCT CODE: **P-06011SPIN**

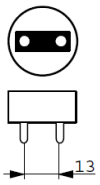
3. PICTURE:



Product	D	A	B	B	C
Actinic BL TL TL-D 15W/10 1SL/25	28 mm	437.4 mm	444.5 mm	442.1 mm	451.6 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent InPEST-branded UV tube FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Cap-Base: G13



- Main application: reprography.
- Color designation: actinic.
- Chromaticity coordinate X (Nom): 222.
- Chromaticity coordinate Y (Nom): 210.
- LLMF 2000h rated: 25%.
- LLMF 6000h rated: 30%.
- Life to 50% failures (Nom): 8.000 h.
- Useful life (Nom): 5.000 h.

Size: as in the picture.

Electrical data-nominal value:
- UV tube nominal wattage: 15W
- Lamp current (Nom): 0,34 A
- Voltage (Nom): 51V

Approval and Application:
- Mercury (Hg) content (Nom): 5,0 mg

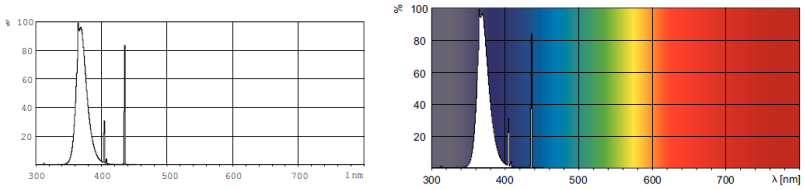
TECHNICAL DATA SHEET

UV (non-coated tube):

- UV-B/UV-A (IEC): 0,2%
- UV-A radiation: 3,5W
  100Hr (IEC)

The product has low emission of UV-A and UV-B radiation, making it particularly safe. Low mercury content, lead-free. Avoid prolonged exposure to skin and eyes.

Photometric data



Note: after the installation of tube inside lamp, a flickering/swirling effect can sometimes be experienced when operated on certain electro-magnetic control ballasts. This effect disappears within the first 20 minutes of illumination. Permanent correction can simply be made by switching lamp off and back on again after a few seconds. This experience in no way compromises tube service life or UV output.

FEP coating:

High temperature FEP Fluoropolymer coating externally applied to contain glass fragments in the event of breakage.

- Marked in compliance with IEC 61549 for fast audit approval.
- Coating service life equal to UV tube life.
- 97% UVA transmission.
- Coating complies with the requirements of FDA 21CRF177.1550, for food contact.
- Coating temperature according to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating is inert to acids and alkalis.
- Coating will not discolour or degrade from UV radiation.
- Coating temperature range: from -70°C to +200°C.
- Comply to ROHS standard.

Application:

- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast-Food outlets, Restaurant and Kitchens.
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

TECHNICAL DATA SHEET

According to legislation:

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:

- Outer carton: 25 pieces (sales unit).

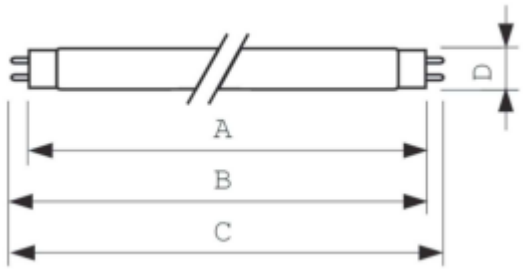
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 18W BL368 STRAIGHT SHATTERPROOF FEP (PHILIPS)**

2. PRODUCT CODE: **P-06029SP**

3. PICTURE:



Product	D (max)	A (max)	B (max)	B (min)	C (max)
Actinic BL TL-D 18W/10 1SL/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Philips-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

General information

- Cap base: G13
- Main application: insect traps
- Life to 50% failures (nom.): 13000 h
- Useful life (nom.): 9000 h
- Chromaticity Coordinate X (Nom): 222
- Chromaticity Coordinate Y (Nom): 210
- UV depreciation at 2000 h: 8%
- UV Depreciation at 5000 h: 16%

Electrical data - nominal value

- Power: 18 W
- Lamp current: 0,36 A
- Voltage: 59 V

Approval and Application

- Mercury (Hg) content (nom.): 5 mg

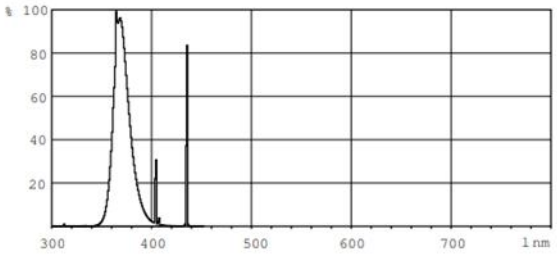
UV

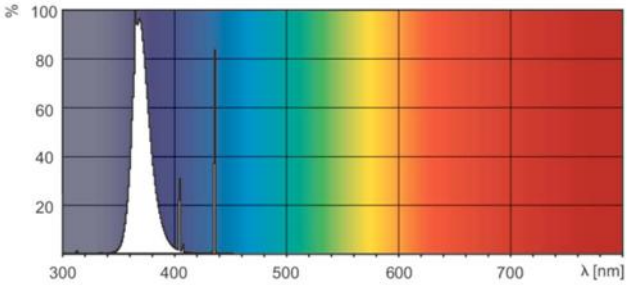
- UV-A radiation 100 hours (IEC): 5 W

TECHNICAL DATA SHEET

The product has low (0,2%) UV-A and UV-B emission, making it especially safe. Low mercury content, lead-free product. However, avoid exposure to skin and eyes.

Photometric data





FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:
- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21 cfr. 177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 25 pieces (sales unit).

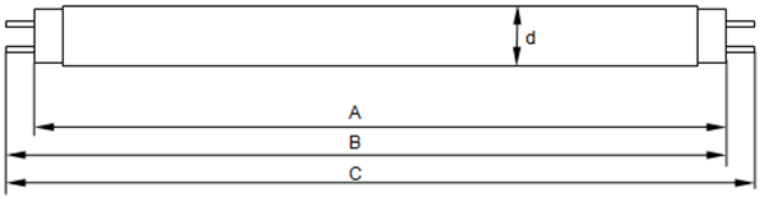
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 20W BL368 STRAIGHT SHATTERPROOF (FEP) NARVA**

2. PRODUCT CODE: **P-06016NASP**

3. PICTURE:



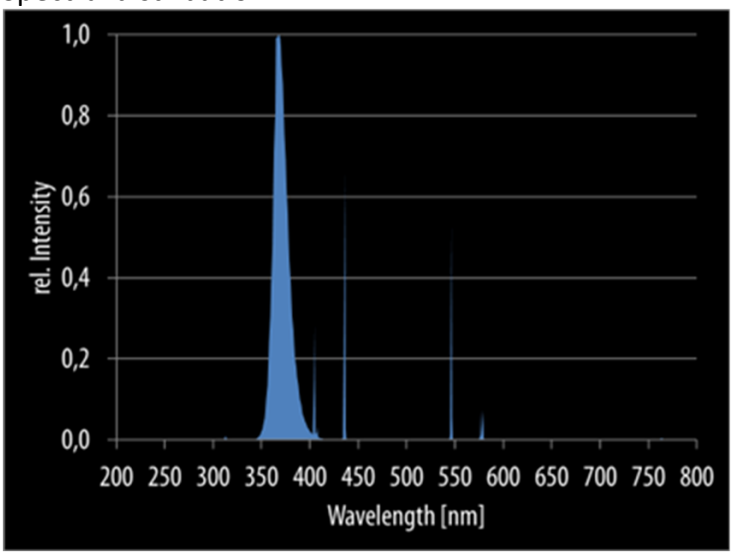
Lenght	590	mm
Length A max (cap - cap)	589,8	mm
Length B min (cap – pin)	594,5	mm
Length B max (cap – pin)	596,9	mm
Length C max (pin – pin)	604,0	mm
Diameter d max	38,0	mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Narva-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Cap base: G13
- Useful Lifetime: 1 year
- Mercury content: <15 mg
- UVA irradiance (315-400nm): 4,2 W /m^2
- UVB irradiance (280nm-315nm): 0,004 W/m^2
- Color Coordinate X: 0,23
- Color Coordinate Y: 0,25
- Lamp UVB maintenance after 100h: 90%
- Lamp UVB maintenance after 500h: 80%
- Lamp UVB maintenance after 1000h: 70%
- Lamp UVB maintenance after 4000h: 50%

TECHNICAL DATA SHEET

Spectral distribution:



Measure: as in the picture

Electrical data - nominal value:

- Frequency: 50Hz
- Nominal wattage: 20 W
- Operating current: 0,368 A

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:

- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;

TECHNICAL DATA SHEET

- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references:

- IEC/EN 61-1 sheet 7004-51-7
- IEC/EN 60081
- IEC/EN 61195
- IEC/EN 60155
- IEC/EN 60921
- IEC/EN 60081-Annex C
- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 25 pieces (sales unit).

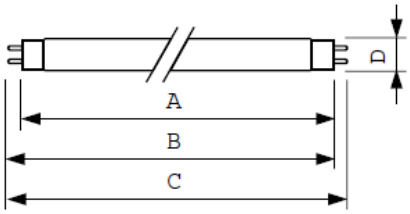
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 36W LINEAR SHATTERPROOF (FEP) PHILIPS (T8 BL368)**

2. PRODUCT CODE: **P-06062SP**

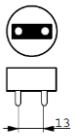
3. PICTURE:



Product	D	A	B	B	C
Actinic BL TL TL-DK 36W/10 1SL/25	28 mm	589.8 mm	596.9 mm	594.5 mm	604 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Base: G13



- Lamp shape: T26 (T 26 mm)
- Main application: Reprographic.
- Colour designation: actinic lamp
- Average life, comply with the requirements of EN60081, Annex C (50% failure state): 9.000 h
- Nominal duration of neon: 5.000 h
- Chromaticity X-coordinate (Nom): 225
- Chromaticity Y-coordinate (Nom): 230
- LLMF 2000h nominal: 20%
- LLMF 6000h nominal: 30%

Size: as in the picture

Electrical data-nominal value:
- UV tube rated wattage: 36W
- UV tube current: 0.865A
- UV tube operating voltage: 50V

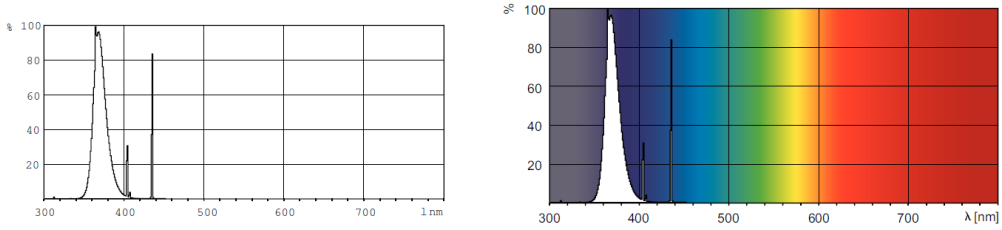
Approval and Application:
- Mercury content (Hg): 8.0 mg

UV (uncoated lamp):
- UV-B/UV-A (IEC): 0,2%
- Radiance UV-A 100 Hr (IEC): 8.8W

TECHNICAL DATA SHEET

The product has a low emission of UV-A and UV-B rays, making it particularly safe. Low mercury content, lead-free product. However, avoid exposure to skin and eyes.

Photometric data



FEP coating:

High temperature FEP Fluoropolymer coating externally applied to contain glass fragments in the event of breakage.

- Marked in compliance with IEC 61549 for fast audit approval.
- Coating service life equal to UV tube life.
- 96% UVA transmission.
- Coating complies with the requirements of FDA 21CRF177.1550, for food contact.
- Coating temperature according to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating is inert to acids and alkalis.
- Coating will not discolour or degrade from UV radiation.
- Coating temperature range: from -70°C to +200°C.
- Comply to ROHS standard.

Application:

- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

According to legislation:

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

6. DISPOSAL CONSIDERATIONS:

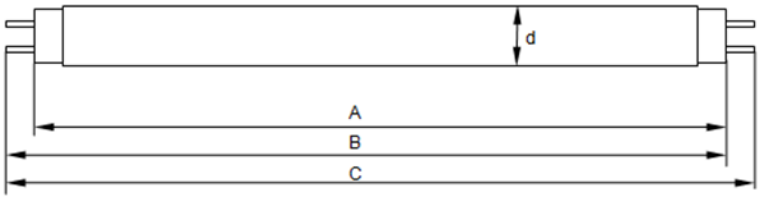
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 40W BL368 STRAIGHT SHATTERPROOF (FEP) NARVA (F40W T12 BL368)**

2. PRODUCT CODE: **P-06017NASP**

3. PICTURE:



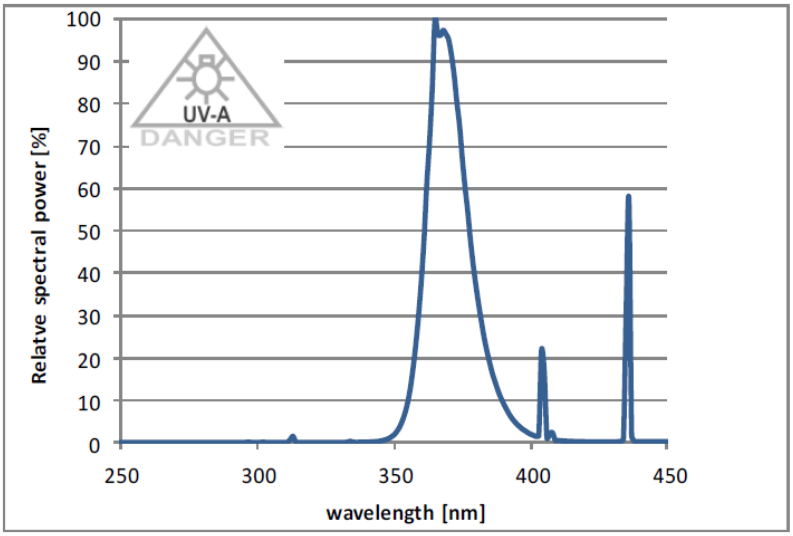
Lenght	600	mm
Length A max (cap - cap)	589,8	mm
Length B min (cap – pin)	594,5	mm
Length B max (cap – pin)	596,9	mm
Length C max (pin – pin)	604,0	mm
Diameter d max	40,5	mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Narva-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Cap base: G13
- Mercury content: <10 mg
- UVA irradiance (315-400nm): 7,1 W/m^2 (±15%)
- Lamp UVA maintenance after 1000h: 97%
- Lamp UVA maintenance after 2000h: 92%
- Lamp UVA maintenance after 5000h: 83%
- Useful lifetime: 5000h

TECHNICAL DATA SHEET

Spectral distribution:



Measure: as in the picture

Electrical data - nominal value:

- Frequency: 50Hz
- Nominal wattage: 39 W
- Operating voltage: 45 V
- Operating current: 0,955 A

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:
- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and

TECHNICAL DATA SHEET

Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references:

- IEC/EN 61-1 sheet 7004-51-7
- IEC/EN 60081
- IEC/EN 61195
- IEC/EN 60155
- IEC/EN 60921
- IEC/EN 60081-Annex C
- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 25 pieces (sales unit).

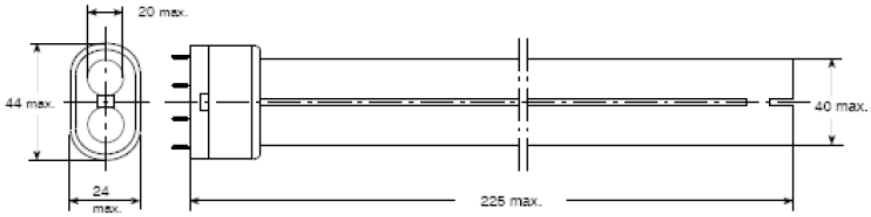
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 18W BL368 LYNX CF-L SYLVANIA**

2. PRODUCT CODE: **P-06018**

3. PICTURE:



4. TECHNICAL SPECIFICATIONS:
Fluorescent Sylvania-branded UV tube, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Base: 2G11
- Starting Time: 10 sec (max)
- Test Voltage: 103,5 V
- Ballast Nominal Voltage: 110 V
- Ballast impedance - single lamp 50Hz: 20W- 270Ω 127V, 540Ω 220V, 580Ω 230V, 610Ω 240V
- Ballast impedance - single lamp 60Hz: 18W 240Ω 118V
- Ballast impedance - Series Operation 50Hz: 40W- 390Ω 220V, 420Ω 230V, 452Ω 240V
- Starter: external
- single lamp 50/60 Hz: FS-11, COP-11, FS-22
- Series Operation 50Hz: FS-22, COP-22
- Operating Position: unrestricted
- Lamp Ambient Temperature: 25°C (min: -15°C, max: 50°C)
- Guide Post Temperature: max 140°C
- Average Electrical life (50% Failure): 15000h
- Irradiance:

PHOTOMETRIC DATA: COLOUR No.	UV-A Irradiance 1m distance bare lamp (315-400nm) ($\mu W/cm^2$)	UV-B Irradiance 1m distance bare lamp (280-315nm) ($\mu W/cm^2$)	ILCOS Code
BLACKLIGHT	42	0.08	XUV/FSD18-E-2G11-40/20/225

Measure: as in the picture

Electrical data:
- Frequency: 50 Hz
- Lamp Nominal wattage: 18W (min: 16,6; max: 19,4)
- Lamp Rated Wattage: 18W

TECHNICAL DATA SHEET

- Lamp operating voltage (rms): 58 V (min: 52 V, max: 64 V)
- Lamp current: 375 mA (max: 425 mA)
- Preheat current: 540 mA (min: 315 mA; max: 670 mA)

Electrical data-nominal value:
- Frequency: >20 Khz
- Lamp wattage: 16 W
- Lamp operating voltage (rms): 50V (min: 45; max: 55)
- Lamp operating current (Normal Operation): 320 mA (min: 270, max: 425)
- Current in any lead to cathodes: max 640 mA

Cathode characteristics:
- Test Current: 340 mA
- Resistance of each cathode: 12 W (min: 9; max: 15)

Starting requirements with cathode preheating:
- Cathode Preheat energy (J):E = Q + P ts
- Preheat Time ts (s): min: 0,4-max: 3
- Energy Q (J): min: 1,5; max: 3
- Power P (W): min: 0,9; max: 1,8
- Voltage across each cathode (V): max 11
- Preheat testing substitution resistor for each cathode (W): min: 8, max: 11
- Open Circuit Voltage across lamp t<ts (V): max 150
- Open Circuit Voltage across lamp t>ts, at 10 °C (V): min. 300
- Substitution resistor for each cathode for OCV test (W): min: 8, max 24

High frequency operation:
Lamp operating current I_D (mA): min: 35, max 270
Sum of squares lead currents at I_D max (A^2): min: 0,038; max: 0,297
Sum of squares lead currents at I_D min (A^2): min: 0,186; max: 0,26
Lead current I_{LH} (mA): max: 476
Lead current I_{LL} (mA): max: 375
Operating Position: Unrestricted
Lamp Ambient Temperature(°C): nominal value: 25 (min -15; max 50)
Guide Post Temperature (°C): max: 140
Average Electrical life (50% Failure): 18000h

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

TECHNICAL DATA SHEET

Normative references:

- IEC/EN 60061-1 sheet 7004-82-1
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC general standard

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

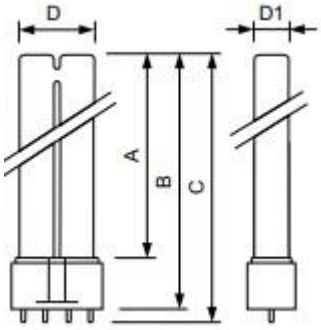
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 18W BL368 LYNX SHATTERPROOF FEP (PHILIPS)**

2. PRODUCT CODE: **P-06181SP**

3. PICTURE:



Product	D1 (max)	D (max)	A (max)	B (max)	C (max)
PL-L 18W/10/4P 1CT/25	18 mm	39 mm	194.2 mm	220 mm	226.6 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Philips-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

General information

- Cap base: 2G11
- Main application: insect traps
- Life to 50% failures (nom.): 15000 h
- Useful life (nom.): 5000 h
- Chromaticity Coordinate X (Nom): 228
- Chromaticity Coordinate Y (Nom): 215
- UV depreciation at 2000 h: 20%
- UV Depreciation at 5000 h: 35%

Electrical data - nominal value

- Power Consumption: 18 W
- Lamp current: 0,375 A
- Voltage: 58 V

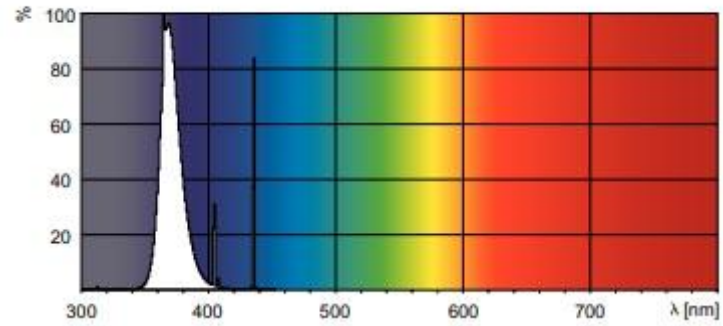
UV

- UV-A radiation 100 hours (IEC): 3,5 W

The product has a very low UV-B emission, making it especially safe. Low mercury content, lead-free product. However, avoid exposure to skin and eyes.

TECHNICAL DATA SHEET

Photometric data



FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:
- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21 cfr. 177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 10 pieces (sales unit).

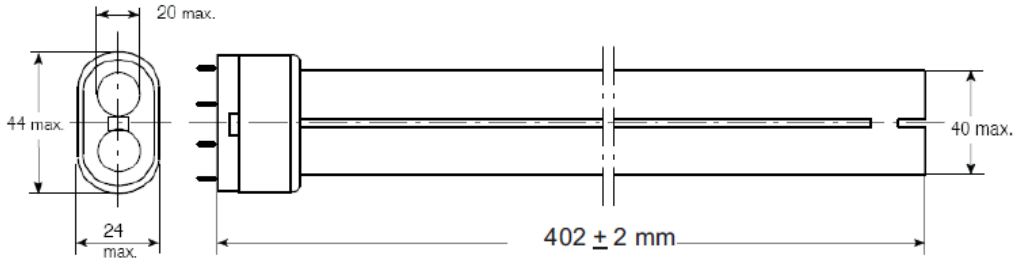
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 36W BL368 LYNX CF-L SYLVANIA STANDARD**

2. PRODUCT CODE: **P-06132**

3. PICTURE:



4. TECHNICAL SPECIFICATIONS:
Fluorescent Sylvania-branded UV tube, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Base: 2G11
- Starting Time: 10 sec (max)
- Test Voltage: 198 V
- Ballast Nominal Voltage: 220 V
- Ballast impedance - single lamp 50Hz: 40W- 390Ω 220V, 420Ω 230V, 452Ω 240V
- Ballast impedance - single lamp 60Hz: 36W 439Ω 236V
- Starter: external
- Single lamp 50/60 Hz: FS-11, COP-11
- Series Operation 50Hz: FS-22, COP-22
- Operating Position: unrestricted
- Lamp Ambient Temperature: 25°C (min: -15°C, max: 50°C)
- Guide Post Temperature: max 140°C
- Average Electrical life, according to EN60081, Annex C (50% Failure): 15000h
- Irradiance:

PHOTOMETRIC DATA: COLOUR No.	UV-A Irradiance 1m distance bare lamp (315-400nm) ($\mu W/cm^2$)	UV-B Irradiance 1m distance bare lamp (280-315nm) ($\mu W/cm^2$)	ILCOS Code
BLACKLIGHT Average at 0 Hrs	102	0.1	XUV/FSD36-E-2G11-40/20/415

Measure: as in the picture

Electrical data:
- Frequency: 50/60 Hz
- Lamp Nominal wattage: 36W (min: 33,7; max: 38,3)

TECHNICAL DATA SHEET

- Lamp Rated Wattage: 36W
- Lamp operating voltage (rms): 106 V (min: 96 V, max: 116 V)
- Lamp current: 435 mA (max: 500 mA)
- Preheat current: 650 mA (min: 365 mA; max: 775 mA)

Electrical data-nominal value:
- Frequency: >20 Khz
- Lamp wattage: 32 W
- Lamp operating voltage (rms): 90V (min: 81; max: 99)
- Lamp operating current (Normal Operation): 360 mA (min: 310, max: 500)
- Current in any lead to cathodes: max 700 mA

Cathode characteristics:
- Test Current: 385 mA
- Resistance of each cathode: 11 W (min: 8,2; max: 13,8)

Starting requirements with cathode preheating:
- Cathode Preheat energy (J):E = Q + P ts
- Preheat Time ts (s): min: 0,4-max: 3
- Energy Q (J): min: 1,6; max: 3,2
- Power P (W): min: 1,0; max: 2,0
- Voltage across each cathode (V): max 11
- Preheat testing substitution resistor for each cathode (W): min: 9, max: 9
- Open Circuit Voltage across lamp t<ts (V): max 190
- Open Circuit Voltage across lamp t>ts, at 10 °C (V): min. 340
- Substitution resistor for each cathode for OCV test (W): min: 7, max 21

High frequency operation:
- Lamp operating current lD (mA): min: 40, max 310
- Sum of squares lead currents at lD max (A2): min: 0,050; max: 0,382
- Sum of squares lead currents at lD min (A2): min: 0,242; max: 0,333
- Lead current ILH (mA): max: 540
- Lead current ILL (mA): max: 404
- Operating Position: Unrestricted
- Lamp Ambient Temperature(°C): nominal value: 25 (min -15; max 50)
- Guide Post Temperature (°C): max: 140
- Average Electrical life, according to EN60901 (50% Failure): 18000h

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

TECHNICAL DATA SHEET

Normative references:

- IEC/EN 60061-1 sheet 7004-82-1
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC general standard

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

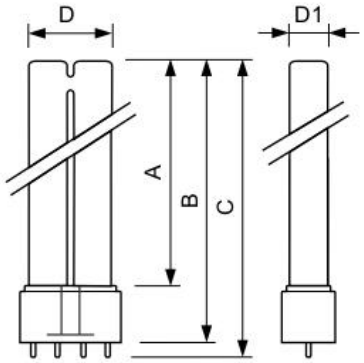
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 36W BL368 LYNX SHATTERPROOF (FEP) PHILIPS**

2. PRODUCT CODE: **P-06171SP**

3. PICTURE:



Product	D1 (max)	D (max)	A (max)	B (max)	C (max)
PL-L 36W/10/4P 1CT/25	18 mm	39 mm	384.2 mm	410 mm	416.6 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Philips-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

General information

- Cap base: 2G11
- Main application: insect traps
- Life to 50% failures (nom.): 11000 h
- Chromaticity Coordinate X (Nom): 220
- Chromaticity Coordinate Y (Nom): 215
- UV depreciation at 2000 h: 15%
- UV depreciation at 5000 h: 20%

Electrical data - nominal value

- Power Consumption: 36 W
- Lamp current: 0,435 A
- Voltage: 106 V

- **Approval and Application**
- Mercury (Hg) Content (Max): 2,1 mg
- Mercury (Hg) Content (Nom): 2,0 mg

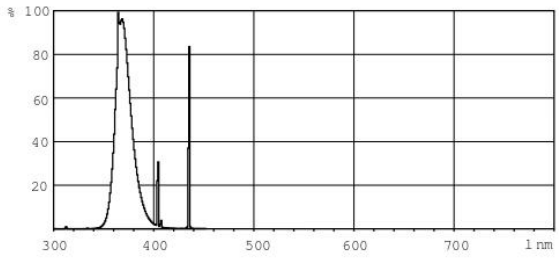
UV

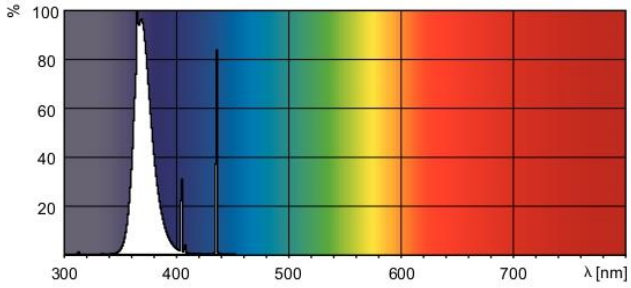
- UV-A radiation 100 hours (IEC): 8,5 W

TECHNICAL DATA SHEET

The product has a low UV-A and UV-B emission, making it especially safe. Low mercury content, lead-free product. However, avoid exposure to skin and eyes.

Photometric data





FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:
- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21 cfr. 177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 10 pieces (sales unit).

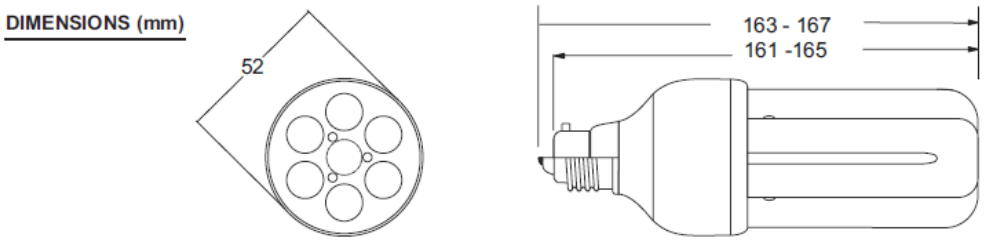
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON MINI LYNX 20W T4 3U BL368 CFL SYLVANIA**

2. PRODUCT CODE: **P-06129**

3. PICTURE:



Cap Type: E27 -IEC60061-1 sheet -7004-21
Cap Type: B22d -IEC60061-1 sheet -7004-10

4. TECHNICAL SPECIFICATIONS:
Fluorescent Sylvania-branded UV tube, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

Electrical data:
- Lamp rated wattage: 20W (min: 17,0; max: 22,0)
- Lamp operating voltage (rms): 230-240V
- Lamp current (mA): 160 mA
- Power Factor: min. 0,55

Operating conditions:
- Cap Rim temperature(°C): 80 max
- Lamp Ambient Temperature (°C): 25 (min: -10; max: 50)
- Operating Position: unrestricted
- Weight (g): 120 g

Performance specifications:
- Starting time at 25°C (s): 0,3 max
- Average Electrical life (to 50% Failure): 8000h

UV OUTPUT DATA:						
Peak Intensity at 350 nm						
UV-A	(315 - 400 nm)	:	<	2000	$\mu W/cm^2$	at 100 mm
UV-B	(280 - 315 nm)	:	<	60	$\mu W/cm^2$	at 100 mm
UV-C	(260 – 280 nm)	:	<	12	$\mu W/cm^2$	at 100 mm

Measure: as in the picture

TECHNICAL DATA SHEET

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

Normative references:

- IEC/EN 60061-1 sheet 7004-21
- IEC/EN 60061-1 sheet 7004-10
- EN60968
- EN60969
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC/EN 61549
- IEC/EN 60598-1
- IEC general standard
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:
- Package of 10 pcs (sales unit)

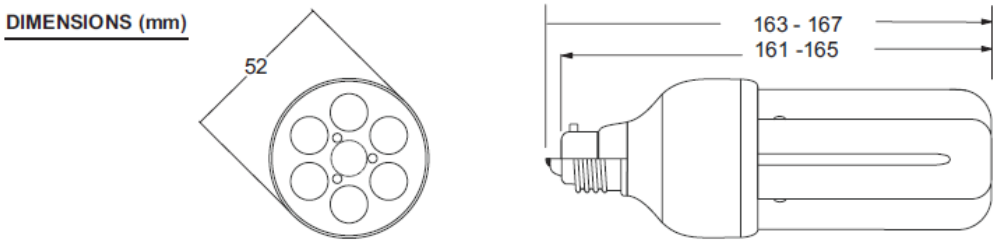
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON MINI LYNX 20W T4 3U BL368 CFL SYLVANIA SHATTER FEP**

2. PRODUCT CODE: **P-06125SP**

3. PICTURE:



Cap Type: E27 -IEC60061-1 sheet -7004-21
Cap Type: B22d -IEC60061-1 sheet -7004-10

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Sylvania-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

Electrical data:
- Lamp rated wattage: 20W (min: 17,0; max: 22,0)
- Lamp operating voltage (rms): 230-240V
- Lamp current (mA): 160 mA
- Power Factor: min. 0,55

Operating conditions:
- Cap Rim temperature(°C): 80 max
- Lamp Ambient Temperature (°C): 25 (min: -10; max: 50)
- Operating Position: unrestricted
- Weight (g): 120 g

Performance specifications:
- Starting time at 25°C (s): 0,3 max
- Average Electrical life (to 50% Failure): 8000h

UV OUTPUT DATA:						
Peak Intensity at 350 nm						
UV-A	(315 - 400 nm)	:	<	2000	$\mu W/cm^2$	at 100 mm
UV-B	(280 - 315 nm)	:	<	60	$\mu W/cm^2$	at 100 mm
UV-C	(260 – 280 nm)	:	<	12	$\mu W/cm^2$	at 100 mm

Measure: as in the picture.

Electrical data-nominal value:

TECHNICAL DATA SHEET

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60968 and EN60969, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

FEP coating:

High temperature FEP Fluoropolymer coating externally applied to contain glass fragments in the event of breakage.

- Marked in compliance with IEC 61549 for fast audit approval.
- Coating service life equal to UV tube life.
- 96% UVA transmission.
- Coating complies with the requirements of FDA 21CRF177.1550, for food contact.
- Coating temperature according to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating is inert to acids and alkalis.
- Coating will not discolour or degrade from UV radiation.
- Coating temperature range: from -70°C to +200°C.
- Comply to ROHS standard.

Application:

- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references:

- IEC/EN 60061-1 sheet 7004-21
- IEC/EN 60061-1 sheet 7004-10
- EN60968
- EN60969
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC/EN 61549
- IEC/EN 60598-1
- IEC general strandard
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

6. DISPOSAL CONSIDERATIONS:

Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **STARTER FS 22**
   Starter for every type of lamp.

2. PRODUCT CODE: **P-06130**

3. PICTURE:

4. TECHNICAL SPECIFICATIONS:
   - Reliable and fast starting
   - Suitable for temperatures from -20° C to +80° C
   - Testhouse approved and ENEC/VDE marked

5. DATA TABLE

EAN Code:	5410288244334
Wattage (nominal) (W):	4.6.8
Voltage (V):	120

6. PACKAGING AND SPARE PARTS:
   - 25 pieces (sales unit)

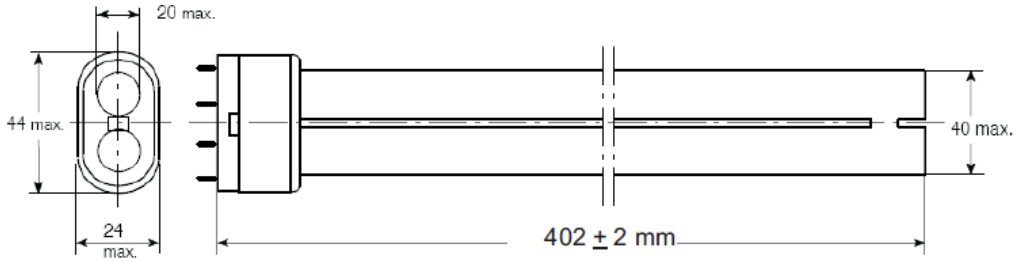
7. DISPOSAL CONSIDERATIONS:
   Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 36W BL368 LYNX CF-L SYLVANIA STANDARD**

2. PRODUCT CODE: **P-06132**

3. PICTURE:



4. TECHNICAL SPECIFICATIONS:
Fluorescent Sylvania-branded UV tube, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

- Base: 2G11
- Starting Time: 10 sec (max)
- Test Voltage: 198 V
- Ballast Nominal Voltage: 220 V
- Ballast impedance - single lamp 50Hz: 40W- 390Ω 220V, 420Ω 230V, 452Ω 240V
- Ballast impedance - single lamp 60Hz: 36W 439Ω 236V
- Starter: external
- Single lamp 50/60 Hz: FS-11, COP-11
- Series Operation 50Hz: FS-22, COP-22
- Operating Position: unrestricted
- Lamp Ambient Temperature: 25°C (min: -15°C, max: 50°C)
- Guide Post Temperature: max 140°C
- Average Electrical life, according to EN60081, Annex C (50% Failure): 15000h
- Irradiance:

PHOTOMETRIC DATA: COLOUR No.	UV-A Irradiance 1m distance bare lamp (315-400nm) ($\mu W/cm^2$)	UV-B Irradiance 1m distance bare lamp (280-315nm) ($\mu W/cm^2$)	ILCOS Code
BLACKLIGHT Average at 0 Hrs	102	0.1	XUV/FSD36-E-2G11-40/20/415

Measure: as in the picture

Electrical data:
- Frequency: 50/60 Hz
- Lamp Nominal wattage: 36W (min: 33,7; max: 38,3)

TECHNICAL DATA SHEET

- Lamp Rated Wattage: 36W
- Lamp operating voltage (rms): 106 V (min: 96 V, max: 116 V)
- Lamp current: 435 mA (max: 500 mA)
- Preheat current: 650 mA (min: 365 mA; max: 775 mA)

Electrical data-nominal value:
- Frequency: >20 Khz
- Lamp wattage: 32 W
- Lamp operating voltage (rms): 90V (min: 81; max: 99)
- Lamp operating current (Normal Operation): 360 mA (min: 310, max: 500)
- Current in any lead to cathodes: max 700 mA

Cathode characteristics:
- Test Current: 385 mA
- Resistance of each cathode: 11 W (min: 8,2; max: 13,8)

Starting requirements with cathode preheating:
- Cathode Preheat energy (J):E = Q + P ts
- Preheat Time ts (s): min: 0,4-max: 3
- Energy Q (J): min: 1,6; max: 3,2
- Power P (W): min: 1,0; max: 2,0
- Voltage across each cathode (V): max 11
- Preheat testing substitution resistor for each cathode (W): min: 9, max: 9
- Open Circuit Voltage across lamp t<ts (V): max 190
- Open Circuit Voltage across lamp t>ts, at 10 °C (V): min. 340
- Substitution resistor for each cathode for OCV test (W): min: 7, max 21

High frequency operation:
- Lamp operating current lD (mA): min: 40, max 310
- Sum of squares lead currents at lD max (A2): min: 0,050; max: 0,382
- Sum of squares lead currents at lD min (A2): min: 0,242; max: 0,333
- Lead current ILH (mA): max: 540
- Lead current ILL (mA): max: 404
- Operating Position: Unrestricted
- Lamp Ambient Temperature(°C): nominal value: 25 (min -15; max 50)
- Guide Post Temperature (°C): max: 140
- Average Electrical life, according to EN60901 (50% Failure): 18000h

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

TECHNICAL DATA SHEET

Normative references:

- IEC/EN 60061-1 sheet 7004-82-1
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC general standard

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

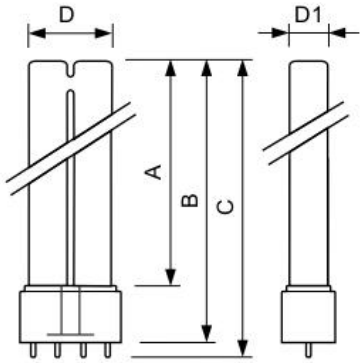
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON 36W BL368 LYNX SHATTERPROOF (FEP) PHILIPS**

2. PRODUCT CODE: **P-06171SP**

3. PICTURE:



Product	D1 (max)	D (max)	A (max)	B (max)	C (max)
PL-L 36W/10/4P 1CT/25	18 mm	39 mm	384.2 mm	410 mm	416.6 mm

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Philips-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

General information

- Cap base: 2G11
- Main application: insect traps
- Life to 50% failures (nom.): 11000 h
- Chromaticity Coordinate X (Nom): 220
- Chromaticity Coordinate Y (Nom): 215
- UV depreciation at 2000 h: 15%
- UV depreciation at 5000 h: 20%

Electrical data - nominal value

- Power Consumption: 36 W
- Lamp current: 0,435 A
- Voltage: 106 V

- **Approval and Application**
- Mercury (Hg) Content (Max): 2,1 mg
- Mercury (Hg) Content (Nom): 2,0 mg

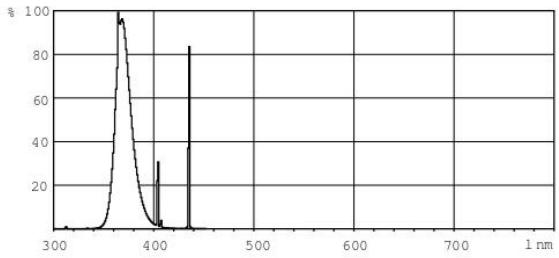
UV

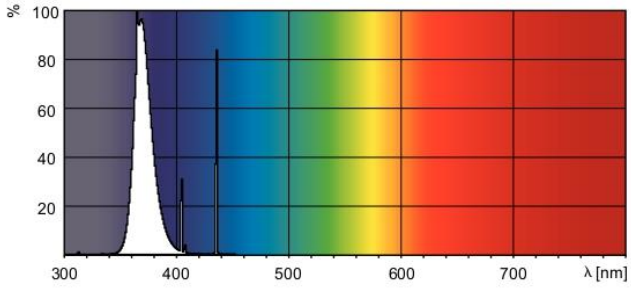
- UV-A radiation 100 hours (IEC): 8,5 W

TECHNICAL DATA SHEET

The product has a low UV-A and UV-B emission, making it especially safe. Low mercury content, lead-free product. However, avoid exposure to skin and eyes.

Photometric data





FEP coating:

High temperature FEP Fluoropolymer coating applied externally to retain glass fragments in the event of breakage.

- Single BlackBand ring marking on linear lamps in compliance with IEC 61549.
- Coating service life equal to UV tube life.
- 96% UVA transmission through coating.
- Coating FDA compliant to 21CRF177.1550 for food contact.
- Coating temperature resistant to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating inert to acids and alkalis.
- Coating will not discolour or degrade with UV radiation.
- Coating service temperature range -70°C to +200°C.
- RoHS compliant.

Application:
- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references

- IEC/EN 61549
- IEC/EN 60598-1
- FDA 21 cfr. 177.1550

5. PACKAGING AND SPARE PARTS:
- Outer carton: 10 pieces (sales unit).

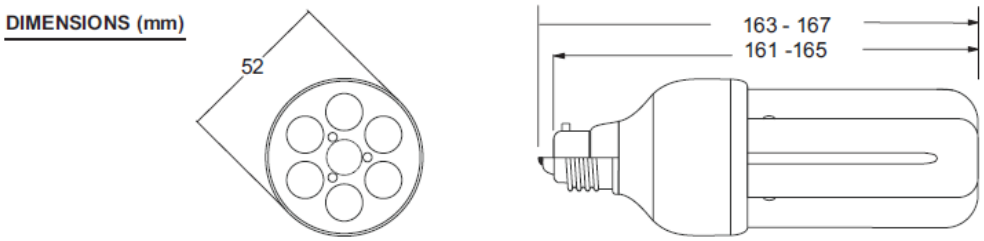
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON MINI LYNX 20W T4 3U BL368 CFL SYLVANIA**

2. PRODUCT CODE: **P-06129**

3. PICTURE:



Cap Type: E27 -IEC60061-1 sheet -7004-21
Cap Type: B22d -IEC60061-1 sheet -7004-10

4. TECHNICAL SPECIFICATIONS:
Fluorescent Sylvania-branded UV tube, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

Electrical data:
- Lamp rated wattage: 20W (min: 17,0; max: 22,0)
- Lamp operating voltage (rms): 230-240V
- Lamp current (mA): 160 mA
- Power Factor: min. 0,55

Operating conditions:
- Cap Rim temperature(°C): 80 max
- Lamp Ambient Temperature (°C): 25 (min: -10; max: 50)
- Operating Position: unrestricted
- Weight (g): 120 g

Performance specifications:
- Starting time at 25°C (s): 0,3 max
- Average Electrical life (to 50% Failure): 8000h

UV OUTPUT DATA:						
Peak Intensity at 350 nm						
UV-A	(315 - 400 nm)	:	<	2000	$\mu W/cm^2$	at 100 mm
UV-B	(280 - 315 nm)	:	<	60	$\mu W/cm^2$	at 100 mm
UV-C	(260 – 280 nm)	:	<	12	$\mu W/cm^2$	at 100 mm

Measure: as in the picture

TECHNICAL DATA SHEET

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60081 and EN61195, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

Normative references:

- IEC/EN 60061-1 sheet 7004-21
- IEC/EN 60061-1 sheet 7004-10
- EN60968
- EN60969
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC/EN 61549
- IEC/EN 60598-1
- IEC general standard
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:
- Package of 10 pcs (sales unit)

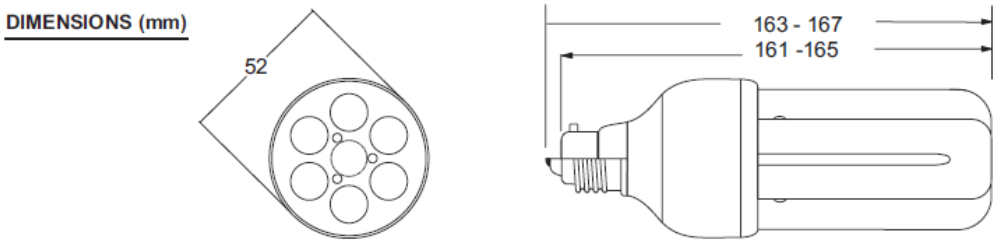
6. DISPOSAL CONSIDERATIONS:
Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **NEON MINI LYNX 20W T4 3U BL368 CFL SYLVANIA SHATTER FEP**

2. PRODUCT CODE: **P-06125SP**

3. PICTURE:



Cap Type: E27 -IEC60061-1 sheet -7004-21
Cap Type: B22d -IEC60061-1 sheet -7004-10

4. TECHNICAL SPECIFICATIONS:
Shatterproof fluorescent Sylvania-branded UV tube with FEP coating, to be used inside lamps for the monitoring of the flying insects. Not to be used for the standard lighting.

Electrical data:
- Lamp rated wattage: 20W (min: 17,0; max: 22,0)
- Lamp operating voltage (rms): 230-240V
- Lamp current (mA): 160 mA
- Power Factor: min. 0,55

Operating conditions:
- Cap Rim temperature(°C): 80 max
- Lamp Ambient Temperature (°C): 25 (min: -10; max: 50)
- Operating Position: unrestricted
- Weight (g): 120 g

Performance specifications:
- Starting time at 25°C (s): 0,3 max
- Average Electrical life (to 50% Failure): 8000h

UV OUTPUT DATA:						
Peak Intensity at 350 nm						
UV-A	(315 - 400 nm)	:	<	2000	$\mu W/cm^2$	at 100 mm
UV-B	(280 - 315 nm)	:	<	60	$\mu W/cm^2$	at 100 mm
UV-C	(260 – 280 nm)	:	<	12	$\mu W/cm^2$	at 100 mm

Measure: as in the picture.

Electrical data-nominal value:

TECHNICAL DATA SHEET

The product emits UV radiation. Avoid prolonged exposure to skin and eyes. Lamps comply with the requirements of EN60968 and EN60969, respectively. Starter and ballast comply with EN60155 and EN60921, respectively.

UV Irradiation in industrial and commercial applications.

FEP coating:

High temperature FEP Fluoropolymer coating externally applied to contain glass fragments in the event of breakage.

- Marked in compliance with IEC 61549 for fast audit approval.
- Coating service life equal to UV tube life.
- 96% UVA transmission.
- Coating complies with the requirements of FDA 21CRF177.1550, for food contact.
- Coating temperature according to IEC 60598-1 standard (glow wire test at 850°C and needle flam test).
- Coating is inert to acids and alkalis.
- Coating will not discolour or degrade from UV radiation.
- Coating temperature range: from -70°C to +200°C.
- Comply to ROHS standard.

Application:

- UV tube for Food, Beverage, Packaging, Pharmaceutical, Fast Food outlets, Restaurant and Kitchens;
- UV tube suitable for strong environments with chemical agents or high environmental temperature.

Normative references:

- IEC/EN 60061-1 sheet 7004-21
- IEC/EN 60061-1 sheet 7004-10
- EN60968
- EN60969
- EN60901
- EN61199
- EN60921
- EN60155
- EN60929
- IEC/EN 61549
- IEC/EN 60598-1
- IEC general strandard
- FDA 21CRF177.1550

5. PACKAGING AND SPARE PARTS:

- Package of 10 pcs (sales unit)

6. DISPOSAL CONSIDERATIONS:

Waste disposal should be in accordance with existing Community, National and local regulations.

TECHNICAL DATA SHEET

1. TRADE NAME: **STARTER FS 22**
   Starter for every type of lamp.

2. PRODUCT CODE: **P-06130**

3. PICTURE:

4. TECHNICAL SPECIFICATIONS:
   - Reliable and fast starting
   - Suitable for temperatures from -20° C to +80° C
   - Testhouse approved and ENEC/VDE marked

5. DATA TABLE

EAN Code:	5410288244334
Wattage (nominal) (W):	4.6.8
Voltage (V):	120

6. PACKAGING AND SPARE PARTS:
   - 25 pieces (sales unit)

7. DISPOSAL CONSIDERATIONS:
   Waste disposal should be in accordance with existing Community, National and local regulations.