

# Product Description

## SOX

Low Pressure Sodium lamp

### Benefits

- High luminous efficacy leads to low energy consumption

### Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow color with non-existent color rendering

### Application

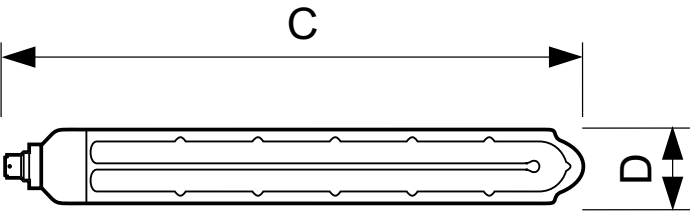
- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting

### Versions



BY22d, T50/T65

Dimensional drawing



Product	D (max)	C (max)
SOX 180W BY22d 1SL/6	66 mm	1120 mm
SOX 135W BY22d 1SL/12	66 mm	775 mm
SOX 135W BY22d 1SL/12	66 mm	775 mm
SOX 90W BY22d 1SL/12	66 mm	528 mm
SOX 90W BY22d 1SL/12	66 mm	528 mm
SOX 55W BY22d 1SL	52 mm	425 mm
SOX 55W BY22d 1SL/12	52 mm	425 mm
SOX 35W BY22d 1SL/12	52 mm	311 mm
SOX 35W BY22d 1SL/12	52 mm	311 mm

Approval and Application	
Mercury (Hg) Content (Nom)	0 mg
Controls and Dimming	
Dimmable	No
General Information	
Cap-Base	BY22D
Life To 20% Failures (Nom)	12000 h
Life To 50% Failures (Nom)	18000 h
Life To 5% Failures (Nom)	6000 h
Luminaire Design Requirements	
Bulb Temperature (Max)	150 °C
Light Technical	
Correlated Color Temperature (Nom)	1800 K

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
928145500008	SOX 35W BY22d 1SL/12	43 kWh	A+
928145500028	SOX 35W BY22d 1SL/12	43 kWh	A+
928146000008	SOX 55W BY22d 1SL/12	64 kWh	A++
928146000028	SOX 55W BY22d 1SL	64 kWh	A++
928146500008	SOX 90W BY22d 1SL/12	105 kWh	A++
928146500028	SOX 90W BY22d 1SL/12	105 kWh	A++
928147000008	SOX 135W BY22d 1SL/12	155 kWh	A++
928147000028	SOX 135W BY22d 1SL/12	155 kWh	A++
928147500008	SOX 180W BY22d 1SL/6	213 kWh	A++

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Nom)	Power (Rated) (Nom)
928145500008	SOX 35W BY22d 1SL/12	0.53 A	70 V	37 W
928145500028	SOX 35W BY22d 1SL/12	0.53 A	70 V	37 W
928146000008	SOX 55W BY22d 1SL/12	0.51 A	109 V	56.0 W
928146000028	SOX 55W BY22d 1SL	0.51 A	109 V	56.0 W
928146500008	SOX 90W BY22d 1SL/12	0.82 A	112 V	91.0 W
928146500028	SOX 90W BY22d 1SL/12	0.82 A	112 V	91.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Voltage (Nom)	Power (Rated) (Nom)
928147000008	SOX 135W BY22d 1SL/12	0.82 A	164 V	135.0 W
928147000028	SOX 135W BY22d 1SL/12	0.82 A	164 V	135.0 W
928147500008	SOX 180W BY22d 1SL/6	0.78 A	240 V	180.0 W

General Information

Order Code	Full Product Name	Operating Position
928145500008	SOX 35W BY22d 1SL/12	H110
928145500028	SOX 35W BY22d 1SL/12	H110
928146000008	SOX 55W BY22d 1SL/12	H110
928146000028	SOX 55W BY22d 1SL	H110
928146500008	SOX 90W BY22d 1SL/12	P20

Order Code	Full Product Name	Operating Position
928146500028	SOX 90W BY22d 1SL/12	P20
928147000008	SOX 135W BY22d 1SL/12	P20
928147000028	SOX 135W BY22d 1SL/12	P20
928147500008	SOX 180W BY22d 1SL/6	P20

## Light Technical (1/2)

	Full	Lumen	Lumen	Luminous	
	Product	Maintenance	Maintenance	Efficacy	Luminous
Order Code	Name	2000 h (Nom)	5000 h (Nom)	(rated) (Nom)	Flux (Nom)
928145500008	SOX 35W BY22d 1SL/12	95 %	90 %	129 lm/W	-
928145500028	SOX 35W BY22d 1SL/12	95 %	90 %	129 lm/W	-
928146000008	SOX 55W BY22d 1SL/12	102 %	100 %	140 lm/W	-
928146000028	SOX 55W BY22d 1SL	102 %	100 %	140 lm/W	7800 lm
928146500008	SOX 90W BY22d 1SL/12	95 %	90 %	150 lm/W	-

	Full	Lumen	Lumen	Luminous	
	Product	Maintenance	Maintenance	Efficacy	Luminous
Order Code	Name	2000 h (Nom)	5000 h (Nom)	(rated) (Nom)	Flux (Nom)
928146500028	SOX 90W BY22d 1SL/12	95 %	90 %	150 lm/W	-
928147000008	SOX 135W BY22d 1SL/12	95 %	90 %	167 lm/W	-
928147000028	SOX 135W BY22d 1SL/12	95 %	90 %	167 lm/W	-
928147500008	SOX 180W BY22d 1SL/6	90 %	80 %	176 lm/W	-

## Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928145500008	SOX 35W BY22d 1SL/12	4550 lm
928145500028	SOX 35W BY22d 1SL/12	4550 lm
928146000008	SOX 55W BY22d 1SL/12	7800 lm
928146000028	SOX 55W BY22d 1SL	7800 lm
928146500008	SOX 90W BY22d 1SL/12	13600 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928146500028	SOX 90W BY22d 1SL/12	13600 lm
928147000008	SOX 135W BY22d 1SL/12	22600 lm
928147000028	SOX 135W BY22d 1SL/12	22600 lm
928147500008	SOX 180W BY22d 1SL/6	32000 lm

## Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928145500008	SOX 35W BY22d 1SL/12	T50
928145500028	SOX 35W BY22d 1SL/12	T50
928146000008	SOX 55W BY22d 1SL/12	T50
928146000028	SOX 55W BY22d 1SL	T50
928146500008	SOX 90W BY22d 1SL/12	T65

Order Code	Full Product Name	Bulb Shape
928146500028	SOX 90W BY22d 1SL/12	T65
928147000008	SOX 135W BY22d 1SL/12	T65
928147000028	SOX 135W BY22d 1SL/12	T65
928147500008	SOX 180W BY22d 1SL/6	T65

