



High energy efficiency low pressure sodium lamps for indoor and outdoor applications

Low Pressure Sodium - SOX

High energy efficiency low pressure sodium lamps for indoor and outdoor applications.

Benefits

- Vibration resistant.
- Long Life.
- Energy efficient

Features

- Energy Efficient up to 180 lumens per watt.
- 18,000 hours rated average life.
- Vibration Resistant - rough service arc tube support system provides protection against shock and vibration.
- T17 base available in 18, 35, and 55 watts / T21 base available in 90, 135, and 180 watts.

Application

- Ideal for roadway lighting, bridge and tunnel lighting, security lighting, area floodlighting, railway crossing lighting and airport lighting.

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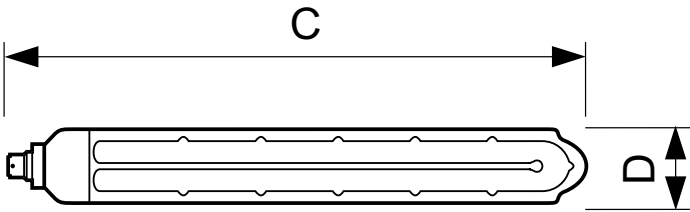
Versions



BY22d, T50/T65

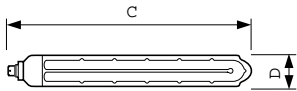
BY22d, T50/T65

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 90W BY22d 1SL/12	66 mm	528 mm
SOX 55W BY22d 1SL	52 mm	425 mm
SOX 35W BY22d 1SL/12	52 mm	311 mm

Product	D (max)	C (max)
MASTER SOX-E 18W BY22d 1SL/12	52 mm	216 mm



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Approval and Application

Mercury (Hg) Content (Nom)	0 mg
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Controls and Dimming

Dimmable	No
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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
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Light Technical

Correlated Color Temperature (Nom)	1800 K
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Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
234047	SOX-E18 12PK	21 kWh	A+
327817	SOX 35 12PK	43 kWh	A+
321513	SOX55 12PK	64 kWh	A++
321521	SOX90 12PK	105 kWh	A++
321539	SOX135 12PK	155 kWh	A++
151167	SOX 180 6PK	213 kWh	A++

Operating and Electrical

Order Code	Full Product Name	Lamp		Voltage (Nom)	Power (Rated) (Nom)
		Current (Nom)	Current (EM) (Nom)		
234047	SOX-E18 12PK	-	0.33 A	57 V	18.0 W
327817	SOX 35 12PK	0.53 A	-	70 V	37 W
321513	SOX55 12PK	0.51 A	-	109 V	56.0 W

Order Code	Full Product Name	Lamp		Voltage (Nom)	Power (Rated) (Nom)
		Current (Nom)	Current (EM) (Nom)		
321521	SOX90 12PK	0.82 A	-	112 V	91.0 W
321539	SOX135 12PK	0.82 A	-	164 V	135.0 W
151167	SOX 180 6PK	0.78 A	-	240 V	180.0 W

General Information

Order Code	Full Product Name	Operating Position
234047	SOX-E18 12PK	Base Up +/- 110 D
327817	SOX 35 12PK	Base Up +/- 110 D
321513	SOX55 12PK	Base Up +/- 110 D

Order Code	Full Product Name	Operating Position
321521	SOX90 12PK	Horizontal +/- 20 D
321539	SOX135 12PK	Horizontal +/- 20 D
151167	SOX 180 6PK	Horizontal +/- 20 D

Light Technical (1/2)

Order Code	Full Product Name	Lumen Maintenance		Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)
		2000 h (Nom)	5000 h (Nom)		
234047	SOX-E18 12PK	95 %	90 %	100 lm/W	-
327817	SOX 35 12PK	95 %	90 %	129 lm/W	-
321513	SOX55 12PK	102 %	100 %	140 lm/W	7800 lm

Order Code	Full Product Name	Lumen Maintenance		Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)
		2000 h (Nom)	5000 h (Nom)		
321521	SOX90 12PK	95 %	90 %	150 lm/W	-
321539	SOX135 12PK	95 %	90 %	167 lm/W	-
151167	SOX 180 6PK	90 %	80 %	176 lm/W	-

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
234047	SOX-E18 12PK	1800 lm
327817	SOX 35 12PK	4550 lm
321513	SOX55 12PK	7800 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
321521	SOX90 12PK	13600 lm
321539	SOX135 12PK	22600 lm
151167	SOX 180 6PK	32000 lm

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Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
234047	SOX-E18 12PK	T15
327817	SOX 35 12PK	T15
321513	SOX55 12PK	T15
321521	SOX90 12PK	T21
321539	SOX135 12PK	T21
151167	SOX 180 6PK	T21

