

# Product Description

## MASTER SOX-E

Low Pressure Sodium lamp with improved efficacy

### Benefits

- Extremely high luminous efficacy makes these the most efficient light sources

### 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
- Special coating of SOX-E outer tube results in higher lamp efficacy than SOX
- 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

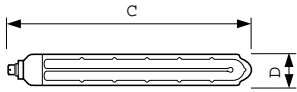
### Versions



BY22d, T50/T65

# MASTER SOX-E

## Dimensional drawing



Product	D (max)	C (max)
MASTER SOX-E 91W BY22d 1SL/12	66 mm	775 mm
MASTER SOX-E 66W BY22d 1SL/12	66 mm	528 mm
MASTER SOX-E 36W BY22d 1SL/12	52 mm	425 mm
MASTER SOX-E 26W BY22d 1SL/12	52 mm	311 mm
MASTER SOX-E 18W BY22d 1SL/12	52 mm	216 mm
MASTER SOX-E 18W BY22d 1SL/12	52 mm	216 mm
MASTER SOX-E 131W BY22d 1SL/6	66 mm	1120 mm

### 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)
928145100008	MASTER SOX-E 131W BY22d 1SL/6	146 kWh	A++
928145200008	MASTER SOX-E 18W BY22d 1SL/12	21 kWh	A+
928145200028	MASTER SOX-E 18W BY22d 1SL/12	21 kWh	A+
928145700008	MASTER SOX-E 26W BY22d 1SL/12	31 kWh	A++
928145800008	MASTER SOX-E 36W BY22d 1SL/12	40 kWh	A++
928145900008	MASTER SOX-E 66W BY22d 1SL/12	75 kWh	A++
928146100008	MASTER SOX-E 91W BY22d 1SL/12	104 kWh	A++

## Operating and Electrical

Order Code	Full Product Name	Lamp		Power
		Current (EM) (Nom)	Voltage (Nom)	(Rated) (Nom)
928145100008	MASTER SOX-E 131W BY22d 1SL/6	0.54 A	250 V	127.0 W
928145200008	MASTER SOX-E 18W BY22d 1SL/12	0.33 A	57 V	18.0 W
928145200028	MASTER SOX-E 18W BY22d 1SL/12	0.33 A	57 V	18.0 W
928145700008	MASTER SOX-E 26W BY22d 1SL/12	0.37 A	69 V	27.0 W

Order Code	Full Product Name	Lamp		Power
		Current (EM) (Nom)	Voltage (Nom)	(Rated) (Nom)
928145800008	MASTER SOX-E 36W BY22d 1SL/12	0.32 A	120 V	36.0 W
928145900008	MASTER SOX-E 66W BY22d 1SL/12	0.6 A	123 V	65.0 W
928146100008	MASTER SOX-E 91W BY22d 1SL/12	0.54 A	173 V	90.0 W

## General Information

Order Code	Full Product Name	Operating Position
928145100008	MASTER SOX-E 131W BY22d 1SL/6	P20
928145200008	MASTER SOX-E 18W BY22d 1SL/12	H110
928145200028	MASTER SOX-E 18W BY22d 1SL/12	H110
928145700008	MASTER SOX-E 26W BY22d 1SL/12	H110

Order Code	Full Product Name	Operating Position
928145800008	MASTER SOX-E 36W BY22d 1SL/12	P20
928145900008	MASTER SOX-E 66W BY22d 1SL/12	P20
928146100008	MASTER SOX-E 91W BY22d 1SL/12	P20

# MASTER SOX-E

## Light Technical

Order Code	Full Product Name	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928145100008	MASTER SOX-E 131W BY22d 1SL/6	100 %	100 %	206 lm/W	26200 lm
928145200008	MASTER SOX-E 18W BY22d 1SL/12	95 %	90 %	100 lm/W	1800 lm
928145200028	MASTER SOX-E 18W BY22d 1SL/12	95 %	90 %	100 lm/W	1800 lm
928145700008	MASTER SOX-E 26W	95 %	95 %	140 lm/W	3700 lm

Order Code	Full Product Name	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Rated) (Nom)
928145800008	MASTER SOX-E 36W BY22d 1SL/12	100 %	100 %	164 lm/W	6100 lm
928145900008	MASTER SOX-E 66W BY22d 1SL/12	100 %	100 %	170 lm/W	11000 lm
928146100008	MASTER SOX-E 91W BY22d 1SL/12	100 %	100 %	192 lm/W	17400 lm

## Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
928145100008	MASTER SOX-E 131W BY22d 1SL/6	T65
928145200008	MASTER SOX-E 18W BY22d 1SL/12	T50
928145200028	MASTER SOX-E 18W BY22d 1SL/12	T50
928145700008	MASTER SOX-E 26W BY22d 1SL/12	T50
928145800008	MASTER SOX-E 36W BY22d 1SL/12	T50
928145900008	MASTER SOX-E 66W BY22d 1SL/12	T65

Order Code	Full Product Name	Bulb Shape
928146100008	MASTER SOX-E 91W BY22d 1SL/12	T65

