



Product Description

MASTER SOX PSG

Low-pressure sodium vapour lamps with a U-shaped discharge tube enclosed in a clear tubular outer bulb under vacuum that is maintained by a solid-state getter

Benefits

- Highest reliability ensures the lowest total cost of ownership
- Stable power consumption through life maintains low energy use and contributes to low cost of ownership
- Extremely high luminous efficacy; the most efficient light sources for road, security and tunnel lighting

Features

- Philips Solid-state Getter (PSG) for highest reliability over life
- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, stable power consumption, shorter run-up time, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering
- Burning position SOX 35W and 55W: base-up $\pm 110^\circ$ (universal burning position when luminaires installed in shock-free positions)

Application

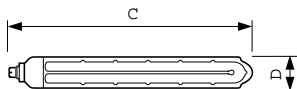
- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting

MASTER SOX PSG

Versions



Dimensional drawing



Product	D (max)	C (max)
MASTER SOX PSG 55W BY22d T50 1SL/12	52 mm	425 mm
MASTER SOX PSG 35W BY22d T50 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 10% Failures (Nom)	12000 h
Life To 50% Failures (Nom)	18000 h
Operating Position	H110
Luminaire Design Requirements	
Bulb Temperature (Max)	150 °C
Light Technical	
Correlated Colour Temperature (Nom)	1800 K
Lumen Maintenance 10000 h (Nom)	95 %
Mechanical and Housing	
Bulb Finish	Clear (CL)
Bulb Shape	T50

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Energy Efficiency Label
		1000 h	(EEL)
59976615	MASTER SOX PSG 35W BY22D T50 SLV/12	41 kWh	A+
59964315	MASTER SOX PSG 55W BY22D T50 SLV/12	62 kWh	A++

Operating and Electrical

MASTER SOX PSG

Order Code	Full Product Name	Lamp Current	
		(Nom)	Voltage (Nom)
59976615	MASTER SOX PSG 35W BY22D T50 SLV/12	0.53 A	70 V

Order Code	Full Product Name	Lamp Current	
		(Nom)	Voltage (Nom)
59964315	MASTER SOX PSG 55W BY22D T50 SLV/12	0.51 A	109 V

Light Technical (1/2)

Order Code	Full Product Name	Lumen Maintenance	Lumen Maintenance	Luminous Efficacy	Luminous Flux (Rated)
		2000 h (Nom)	5000 h (Nom)	(rated) (Nom)	(Min)
59976615	MASTER SOX PSG 35W BY22D T50 SLV/12	95 %	95 %	127 lm/W	4250 lm
59964315	MASTER SOX PSG 55W	100 %	100 %	141 lm/W	7100 lm

Order Code	Full Product Name	Lumen Maintenance	Lumen Maintenance	Luminous Efficacy	Luminous Flux (Rated)
		2000 h (Nom)	5000 h (Nom)	(rated) (Nom)	(Min)
	BY22D T50 SLV/12				

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
59976615	MASTER SOX PSG 35W BY22D T50 SLV/12	4700 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
59964315	MASTER SOX PSG 55W BY22D T50 SLV/12	8000 lm

