



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 color with non-existent color rendering
- Burning position SOX 35 W and 55 W: 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

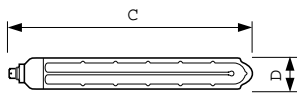
MASTER SOX PSG

Versions



BY22d, T50

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 Color Temperature (Nom)	1800 K
Lumen Maintenance 10000 h (Nom)	95 %
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	T50

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h	Energy Efficiency Label (EEL)
928148100058	MASTER SOX PSG 35W BY22d T50 1SL/12	41 kWh	A+
928148300058	MASTER SOX PSG 55W BY22d T50 1SL/12	62 kWh	A++

Operating and Electrical

MASTER SOX PSG

Order Code	Full Product Name	Lamp Current	
		(Nom)	Voltage (Nom)
928148100058	MASTER SOX PSG 35W BY22d T50 1SL/12	0.53 A	70 V

Order Code	Full Product Name	Lamp Current	
		(Nom)	Voltage (Nom)
928148300058	MASTER SOX PSG 55W BY22d T50 1SL/12	0.51 A	109 V

Light Technical (1/2)

Order Code	Full Product Name	Lumen	Lumen	Luminous	Luminous
		Maintenance	Maintenance	Efficacy	Flux
		2000 h (Nom)	5000 h (Nom)	(rated)	(Rated)
				(Nom)	(Min)
928148100058	MASTER SOX PSG 35W BY22d T50 1SL/12	95 %	95 %	127 lm/W	4250 lm
928148300058	MASTER SOX PSG 55W	100 %	100 %	141 lm/W	7100 lm

Order Code	Full Product Name	Lumen	Lumen	Luminous	Luminous
		Maintenance	Maintenance	Efficacy	Flux
		2000 h (Nom)	5000 h (Nom)	(rated)	(Rated)
				(Nom)	(Min)
	BY22d T50 1SL/12				

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928148100058	MASTER SOX PSG 35W BY22d T50 1SL/12	4700 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
928148300058	MASTER SOX PSG 55W BY22d T50 1SL/12	8000 lm

