



# TrueForce LED Public (Road/Area – SOX)

## MAS LED SOX M 4Klm 28W 840 B22 FR

MASTER, LED, Tubular, Mains only, 28 W, B22, 4000 K, 4000 lm, CRI 80, 50000 h

Philips TrueForce LED Public (Road/Area – SOX) offers an easy and short payback LED solution to replace SOX systems. These lamps bring the LED benefits of energy efficiency and long lifetime to HID replacement. They also come with a low initial investment to ensure instant savings. With the right lamp size, cap and light distribution, you can easily retrofit the traditional SOX system with TrueForce LED SOX lamp thereby enhancing the light quality with comfort and safety without having to replace the fixtures or sacrifice the light effect.

### Warnings and Safety

- Please refer to the installation guide or consult a Philips Lighting representative for wiring diagram and instructions.

### Product data

General Information		Colour designation	
Cap base	B22	Colour designation	Cool White (CW)
Nominal lifetime	50,000 h	Correlated Colour Temperature (Nom)	4000 K
Switching Cycle	50,000	Luminous efficacy (rated) (nom.)	142.00 lm/W
Lighting Technology	LED	Colour consistency	<6
Flux measurement reference	Sphere	Colour rendering index (CRI)	80
Light Technical		LLMF at end of nominal lifetime (nom.)	70 %
Colour Code	840 [CCT of 4000K]	Photobiological safety according to EN 62471	RG1
Beam angle (nom.)	230 degree(s)	Operating and Electrical	
Luminous Flux	4,000 lm	Line Frequency	50 to 60 Hz
		Input frequency	50 to 60 Hz

## TrueForce LED Public (Road/Area – SOX)

Power Consumption	28 W
Lamp current (max.)	286 mA
Lamp current (min.)	127 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	100-240 V
Inrush current at mains	8.24
Max. lamp no. on MCB B type 10A – Mains	16
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – Mains	26
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	-
Wattage Equivalent (LED HID only)	SOX-E 36W
Ballast Compatibility	Mains only

### Temperature

T-Case maximum (nom.)	65 °C
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### Controls and Dimming

Dimmable	No
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### Mechanical and Housing

Bulb shape	Tubular
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Net Weight (Piece)	0.460 kg
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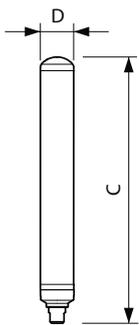
### Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Energy consumption kWh/1,000 hours	28 kWh
EPREL Registration Number	421460
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	2
Ambient temperature range	-30 to +45 °C

### Product Data

Order product name	MAS LED SOX M 4Klm 28W 840 B22 FR
Full product name	MAS LED SOX M 4Klm 28W 840 B22 FR
Full EOC	871951430564900
Order code	929002496902
Material no. (12 NC)	929002496902
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514305649
Numerator – packs per outer box	6
EAN/UPC – Case	8719514305656

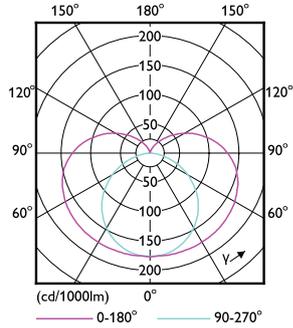
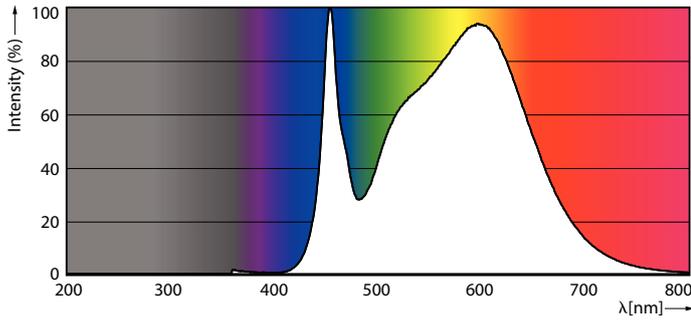
## Dimensional drawing



Product	D	C
MAS LED SOX M 4Klm 28W 840 B22 FR	52 mm	425 mm

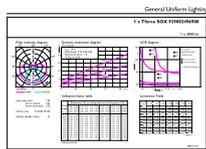
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## Photometric data



Spectral Power Distribution Colour - MAS LED SOX M 4Klm 28W 840 B22 FR

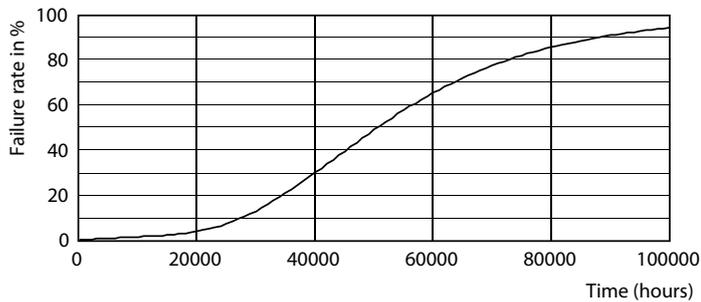
Light Distribution Diagram - MAS LED SOX M 4Klm 28W 840 B22 FR



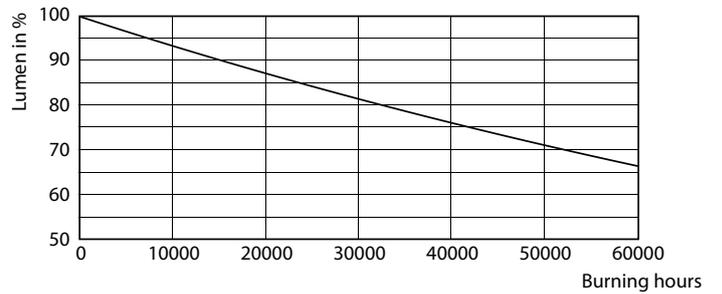
General Information 11 | Photometry 11 | Page 11

General uniform lighting - MAS LED SOX M 4Klm 28W 840 B22 FR

## Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LED SOX M 4Klm 28W 840 B22 FR

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