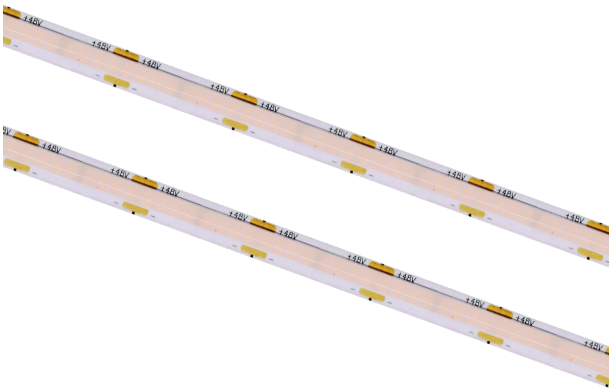
LED STRIP SOB 320 • 48 V • 12 W • 2700 K • IP20 • 1460 LM • RA92 • 8 MM



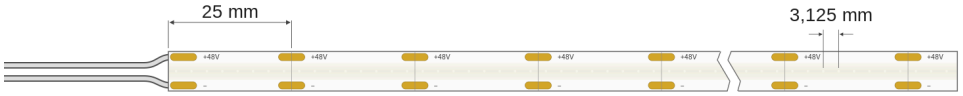
12 W/m
SOB/SMD technology – uniform light line
up to 135 lm/W
8 mm PCB 2 oz R2R
48 V DC
2.5 cm cutting interval
Ra > 90
75000 h L70 lifetime
3M 300 LSE adhesive tape
5-year warranty

A professional next-generation LED strip designed for continuous operation, offering luminous efficacy up to 135 lm/W. The SOB/SMD technology is an enhanced alternative to traditional COB strips – combining the uniform, seamless light line typical of COB with the higher durability and efficiency of SMD diodes. A special silicone layer further smooths the light and increases mechanical resistance, eliminating common weaknesses of COB strips. The 320 precisely placed LEDs ensure exceptional uniformity, high colour rendering and very low SDCM values for perfect colour consistency along the entire length. The strip features a wide 160°+ beam angle, an ultra-short 2.5 cm cutting interval and strong 3M 300 LSE adhesive for secure installation. An ideal choice for premium installations where quality, aesthetics and reliability matter.

Specification

Parameter	Value
Symbol	SOB-12-HW-48
EAN13	5901289759977
ETIM CLASS	LED strips and rope lights
Socket	wires
Model	LED strip
Mains or non-mains	NMLS
Dimmable	yes
Power [W]	12
Power for white light [W]	12
Colour of light	White
Number of LEDs per metre	320
Degree of protection	IP20
Suitable for use	
Cutting interval [cm]	2.5
Voltage [V]	48
Voltage type	DC
Colour temperature [K]	2700
Colour rendering index CRI	92
Minimum colour rendering index	90
Maximum colour rendering index	93
Colour rendering index R9	50
Energy efficiency class	E
Luminous flux [lm]	1460
Luminous flux - white light [lm]	1460
Beam angle [°]	160
Corresponding beam angle	Sphere 360°
Non-directional or directional light source	Non-directional light source NDLS
Survival factor	0.9
Lumen maintenance factor	0.96
Chromaticity coordinates - x	0.457
Chromaticity coordinates - y	0.41
With self-adhesive tape	yes
Equivalent power [W]	97
Energy consumption — white light [kW/1000h]	12
Min. number of switching cycles	75000
Rated lifetime L70/B50 at 25 °C [h]	75000
Colour-tuneable light source (CTLS)	no
Connected light source (CLS)	no

High-luminance light source (HLLS)	no
Anti-glare shield	no
Operating temperature [°C]	-20 ~ 45
Colour consistency in McAdam ellipses	3





IP20	8.0 × 3.0 mm
IP66	8.3 × 3.3 mm
IP68	10.0 × 5.0 mm