

LED Bar 8w

Multi-purpose LED Light Fitting
Complete with LSOH Cable

LED Bar - EFX-1000MLB LSOH



LED Bar 8w - EXF1000MLB LSOH

The Eco-FX LED Bar features patented Tri Chip technology which offers excellent thermal management and provides a life expectancy of 30,000 hours minimum. Available in various pitch options and custom lengths up to 2 metres. This dimmable LED Bar comes in red, blue, green, amber and RGB options.

Technical 8w	
Product Code	EFX-1000MLB LSOH
Size	1000mm x 28.9mm x 10.6mm
Beam Angle	120°
Input Voltage	110-265Vac
Frequency	50/60 Hz
Transformer Output	8W
Running Current	330mA
Power Factor	0.95
Chip Set	50/50 3 Chip
Efficiency (LOR)	98%
Colour Temperature	Warm White 2700-3000k Cool White 5700k
Lumen	Warm White 670lm Cool White 770lm
Efficacy	Warm White 83.75 lm/w Cool White 96.25 lm/w
CRI	Warm White >85 Cool White >80
Internal Temperature	45°
Operating Temperature	-40° / +50°
IP Rating	67
Cable	LSOH (Low Smoke Zero Halogen)



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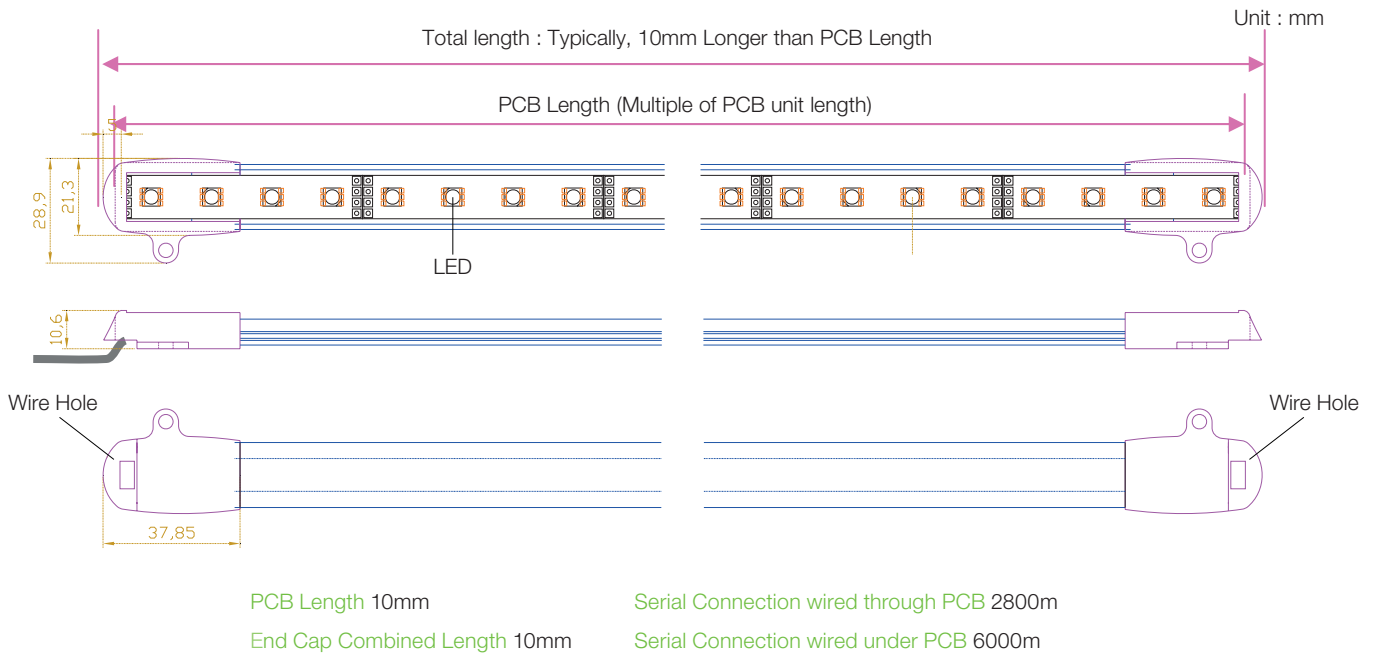
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Issue January 2013

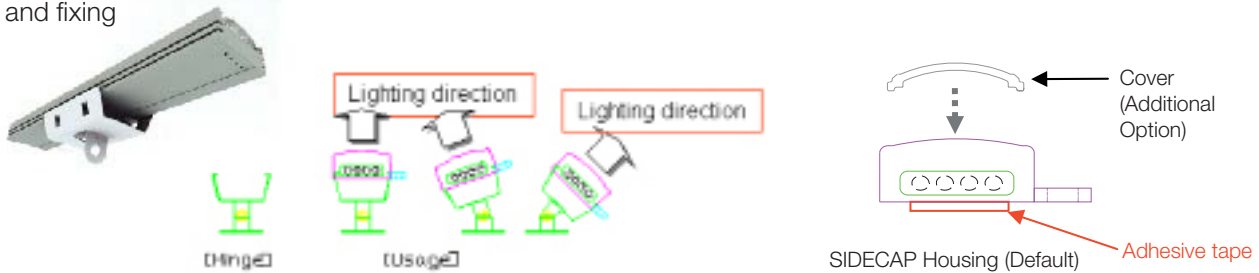
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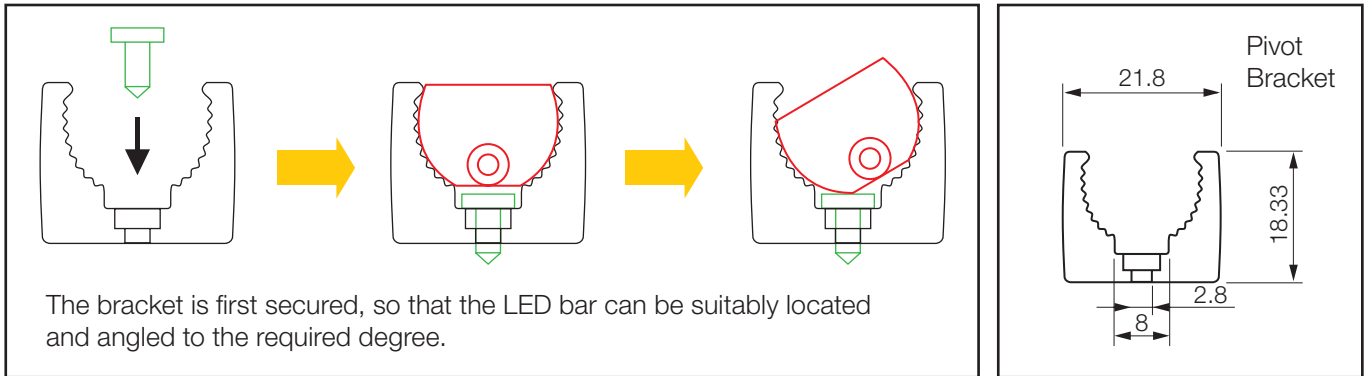
Dimensions



Accessories

Adjustable Hinge for accurate LED positioning and fixing

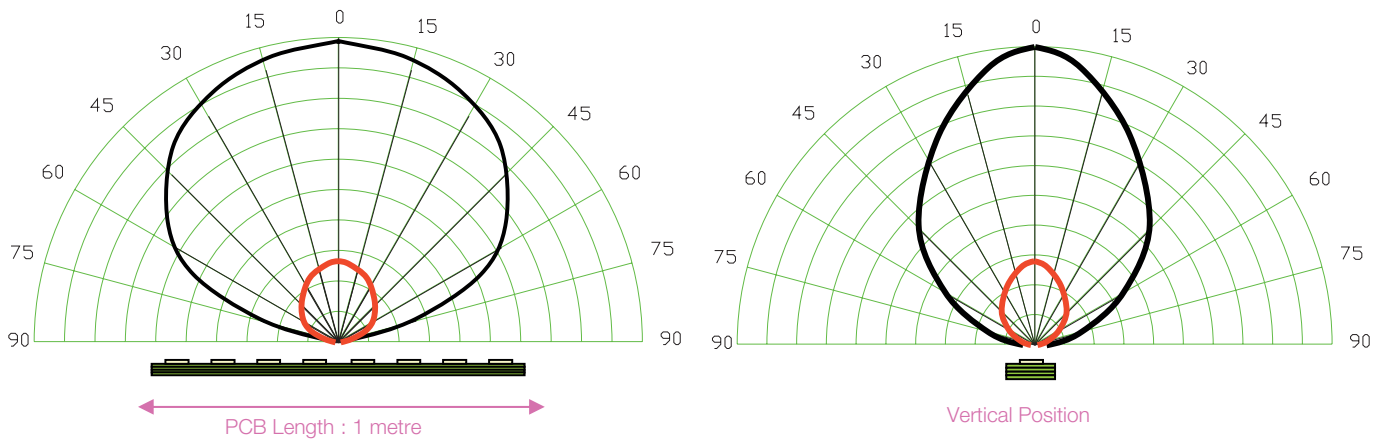




Photometric Data

Relative brightness from the degree of the offset angle

— 1m distance
— 2m distance



Chip LED -50/50 chip or 35/28 chip

Various levels of IP rating -up to IP67 or IP68 with additional housing.

Length of LED BAR-Is adjustable by using diferent PCB sizes.

PROPERTIES OF INSULATION RADOX 125

MATERIAL SPECIFICATION

Scope:

Radox 125 of Huber & Suhner is an irradiation crosslinked polyolefin copolymer, strictly free of halogens, with temperature rating of 125°C. Radox 125 has a high limiting oxygen index, is highly flame retardant and generates only negligible amounts of smoke in case of fire.

Characteristics of Radox 125 insulation for electrical wires and cables:

Properties	Requirements	Test method
1. Mechanical		
1.1 Tensile strength	>10 N/mm ²	IEC 811-1-1 cl.9
1.2 Elongation at break	>150 %	IEC 811-1-1 cl.9
2. Thermal		
Ageing requirements		IEC 811-1-1 cl.8
After air oven 7 days for 240 hours	150°C +/- 2°C	
Tensile strength, min. percentage of unaged value	>70 %	IEC 811-1-1 cl.9
Elongation, min. percentage of unaged value	>70 %	IEC 811-1-1 cl.9
2.1 Max. conductor temperature		
- continuous operation	+ 120 °C	
- emergency operation (max. 125 hours/year)	+ 170 °C	
- short circuit (max. 5 sec)	+ 280 °C	
2.2 Heat shock test 1 hour/180°C	No cracks	IEC 811-3-1 cl.9
2.3 Cold bend	-50 °C	IEC 811-1-4 cl.8
3. Flame retardant properties		
3.1 Limiting oxygen index	>27	ASTM D 2863
3.2 Resistance to flame	Passed	UL 1581 CL.1160 IEC 332-2 cat.C
4. Corrosivity		
4.1 Acid gas evaluation	< 0.5 mg/g	IEC 754-1
4.2 Corrosivity		ASTM 2671 Copper mirror

5.	Chemical		
5.1	Resistance to ozone (2 pphm, 20°C, 10 days)	Pass	IEC 811-2-1 cl.8
5.2	Weathering test 2000 hours		
	- retention of tensile strength	>80 %	ASTM 053
	- retention of elongation at break	>80 %	
6.	Electrical		
6.1	Voltage test on standard cores	3.5 kV	IEC 885-1 cl.3
6.2	AC leakage current	<1.10 ⁶ A/Vm	UL 1581 cl.1320
6.3	Insulation resistance at 20°C	>10 ¹³ W.cm	IEC 885-1 cl.4
	at 90°C	>10 ¹³ W.cm	

This limited fire hazard sleeving is halogen free making it ideal for protecting wire and cables in areas where smoke and fume emissions must be minimised. Supplied in 100 metre continuous reels. Low smoke, low toxicity and zero halogen. The compound meets the requirement of DIN/VDE 2007 AND BS6724.

SPECIFICATION:

COLOUR OPTIONS: Black, Blue, Brown, Green, Yellow, Grey, Red, White

MATERIAL: Halogen-Free, Low Smoke

OPERATING TEMPERATURE: -20°C to +90°C

DENSITY: 1.48

TENSILE STRENGTH: 15MPa

ELONGATION AT BREAK: 163%

VERTICAL BURN TEST PASS: UL 1581

SMOKE DENSITY PASS: ASTM E-662

OXYGEN INDEX: 37% ISO 4589-2

AFTER HEAT AGEING FOR 7 DAYS AT 110°C: Tensile: 16.5MPa Elongation: 140%

STANDARDS: DIN/VDE 0207 BS 6724. Wall Thickness: 0.5mm

