SERIES
COB|528|14.4
HI LUX

COB

LINEAR LUX
LED LIGHTING SOLUTIONS

Technical Data
LED Flexible Strip Light
COB|528|14.4
Issue: V1.0

CE

RoHS COMPLIANT

LM80

SERIES COB
COB|528|14.4
HI LUX

**LINEAR LUX** — LED LIGHTING SOLUTIONS

Features

- High density 528x chips/m COB LED
- **No visible dot design**
- High efficacy of 110lm/W
- **High CRI >90**
- Efficient heat design, requires no heat-sink
- Ultra flexible substrate
- Safe low voltage
- Pre-wired at both ends
- Double sided tape mounting
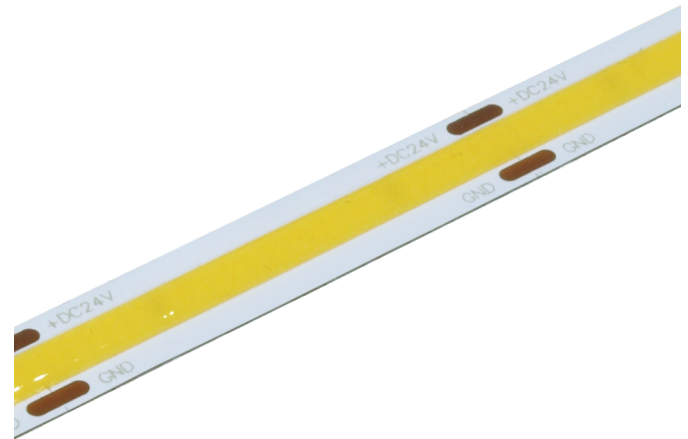
Electrical Data

Voltage	24.0 VDC
Wattage per metre	**14.4 W**
Current per metre	0.6 A / 24 V

LED Data

LED type	**COB**
Manufacturer	SAN'AN
Chips per metre	528

Photometric Data

Colour temperature	See figure 2
Colour redering index Ra	>90
Luminous flux per metre	1,584 lm >3,700°K
	1,414 lm <3,200°K
Luminous efficacy	110 lm/W >3,700°K
Beam angle	160°
Dimmable	1 ~ 100%

Construction / Protection Data

Substrate	Double layer FPCB
Thickness of FPCB	2 oz
Mounting	Double sided tape 3M
IP rating	See figure 3
Operating temperature	-20 ~ +70 C°
Storage temperature	-20 ~ +50 C°

Dimensions

Cutting increments	24 LEDs / 45.45mm
	See figure 1
Length	5000mm
Width	10.0mm
Height	1.8mm

Lifetime

Lifespan (L70)	>50,000 hours

Testing environment temperature = 25°C ±2.0°

LM80   CE   RoHS COMPLIANT

Figure 1.
Cutting Increments

24V

45.45mm

10mm
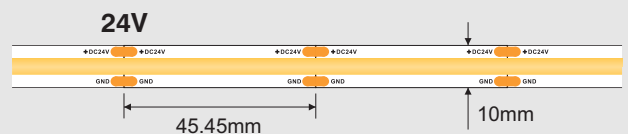
Figure 2.
Colour Temperatures

2700°K Extra Warm White
3000°K Warm White
4000°K Cool White
6500°K Daylight

RED   **GREEN**   **BLUE**
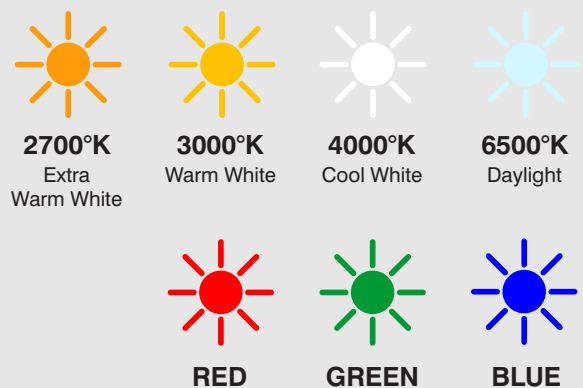
Figure 3.
IP Protection Ratings

IP20   **IP67**

- FPCB
- Silicone Gel
- Double-sided tape 3M 9080 (indoor)
- Double-sided tape 3M 300LSE (outdoor)

Dimensions

IP20

+DC24V   +DC24V
GND   GND
10.0mm   1.8mm

IP67

+DC24V   +DC24V
GND   GND
14.0mm   5.0mm
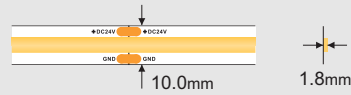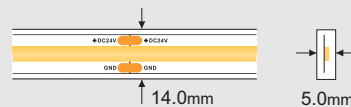
Ordering Information

LL COB	120	24	4K0	IP20	5M
LED Type	**Chips / m**	**Voltage**	**Colour**	**IP Rating**	**Length**
COB	528	24	2K7	20	5m
			3K0	54	
			4K0	67	
			6K5		
			Colours*		

* Blue, green, and red LEDs can be ordered as an indent item, MOQ may apply

Installation

- The mounting surface must be clean, dry and free from dust or grease.
- Carefully unroll the LED strip from the reel.
- Measure and cut the LED strip to the required length (only cut at the predefined cut interval).
- Remove the 3M self-adhesive backing tape from the LED strip carefully. ***Do not remove all the backing at once*** *otherwise the LED strip may become entangled.*
- Stick down the LED strip to the mounting surface by pressing down gently on the LED strip. ***Do not apply excessive force to the LED strip,*** *otherwise the LEDs and components may become damaged.*
- Once the LED strip has been mounted, it is then ready to be wired and powered.

For more detailed instruction on installation & wiring please see the product page on our website.

Notes

- It is <u>not recommended</u> to power a continuous length longer than **[5m for 12V]** or **[10m for 24V]** LED strip due to voltage drop.
- **Do not exceed the rated input voltage**, always ensure a regulated power supply is used.