

SERIES

2835 | 120 | 14.4

HI LUX

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LINEAR LUX
LED LIGHTING SOLUTIONS



Technical Data

LED Flexible Strip Light

2835 | 120 | 14.4

Issue: V1.0



Features

- High performance 2835 LEDs
- **High efficacy of 117lm/W**
- Low visible dot design (120 LEDs per metre)
- Efficient heat design, requires no heat-sink
- Narrow profile (8mm wide)
- Ultra flexible substrate
- Safe low voltage
- Pre-wired at both ends
- Double sided tape mounting

Electrical Data

Voltage	12.0 / 24.0 VDC
Wattage per metre	14.4 W
Current per metre	1.2 A / 12 V 0.6 A / 24 V

LED Data

LED type	2835
Manufacturer	Dilux
Quantity of chips per LED	1
Quantity of LEDs per metre	120
LED pitch	8.35 mm

Photometric Data

Colour temperature	See figure 2
Colour rendering index Ra	>80
Luminous flux per metre	1,680 lm >3,700°K 1,500 lm <3,200°K
Luminous efficacy	117 lm/W >3,700°K
Beam angle	120°
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	3 LEDs / 25mm (12V) 6 LEDs / 50mm (24V) See figure 1
Length	5000mm
Width	8.0mm
Height	1.2mm

Lifetime

Lifespan (L70)	>70,000 hours
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Testing environment temperature = 25°C ±2.0°

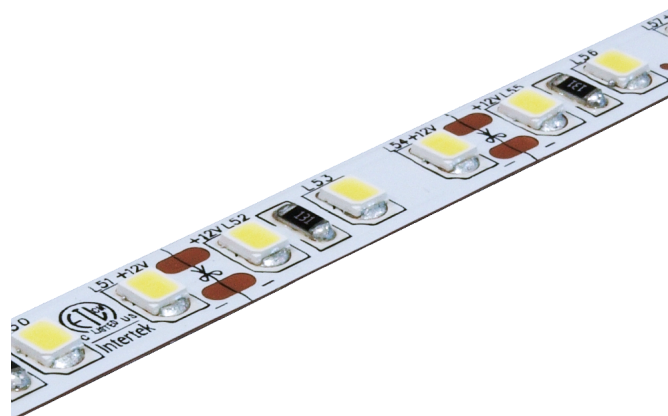


Figure 1.

Cutting Increments

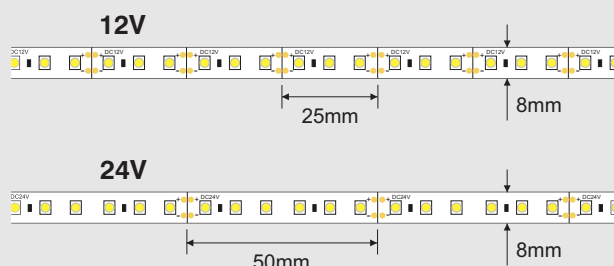


Figure 2.

Colour Temperatures

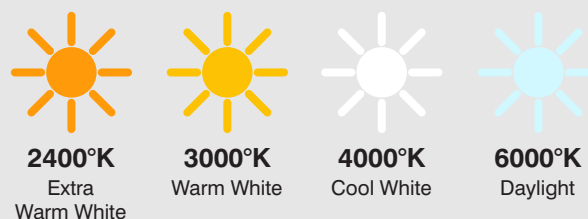
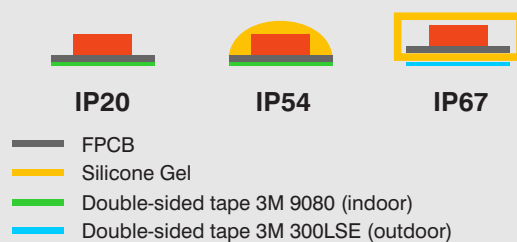


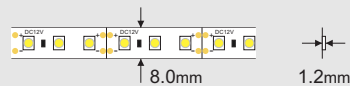
Figure 3.

IP Protection Ratings

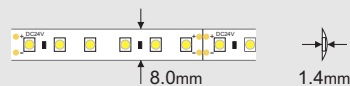


Dimensions

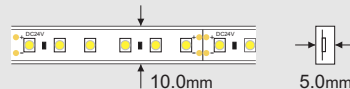
IP20



IP54



IP67



Ordering Information

LL 28	120	12	3K0	IP20	5M
LED Type	LEDs / m	Voltage	Colour	IP Rating	Length
2835	120	12	2K4	20	5m
		24	3K0	54	20m
			4K0	67	
			6K0		
			Colours*		

* Blue, green, yellow 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 not recommended 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.



Further information

[Photometric Data](#)

[Installation and Wiring Instructions](#)

[LED Binning](#)

[IES File](#)

[LED Strip Light Selection Guide](#)