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Product Specification

TLN-COB15-XXXX



Features

COB Design, with more chips on PCB, more even light.

Cutable at every 22.73mm(12Vdc)/45.45mm(24Vdc) length.

Efficiency up to 105Lm/W.

CE, Rohs, UL listed.

Picture

12VDC

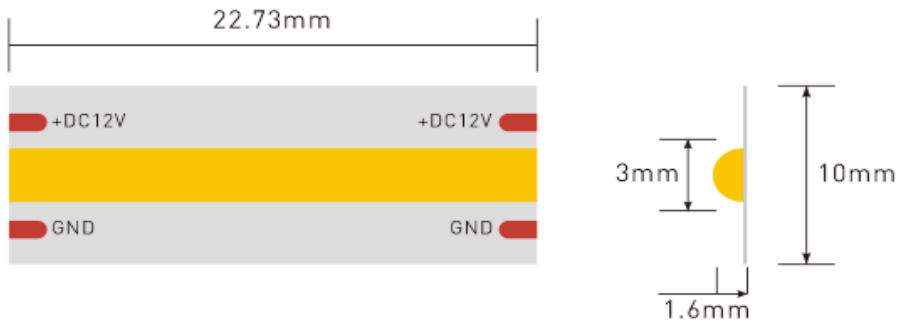


24VDC

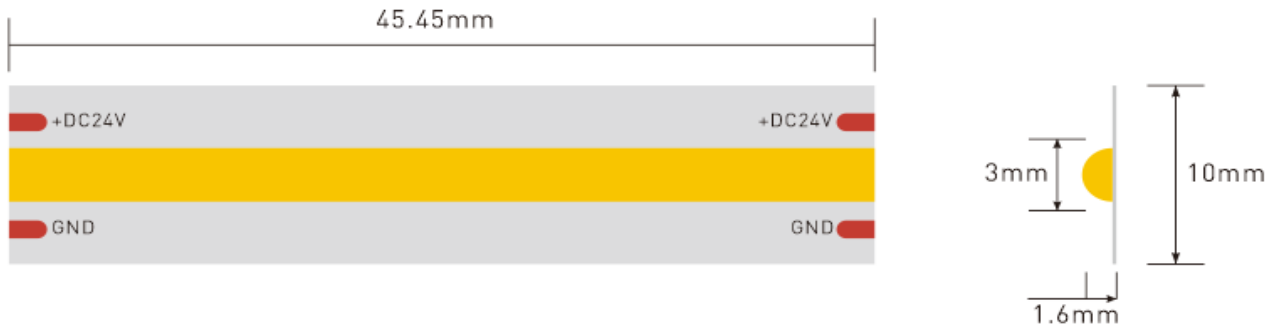


Dimensions

12VDC



24VDC



Specifications

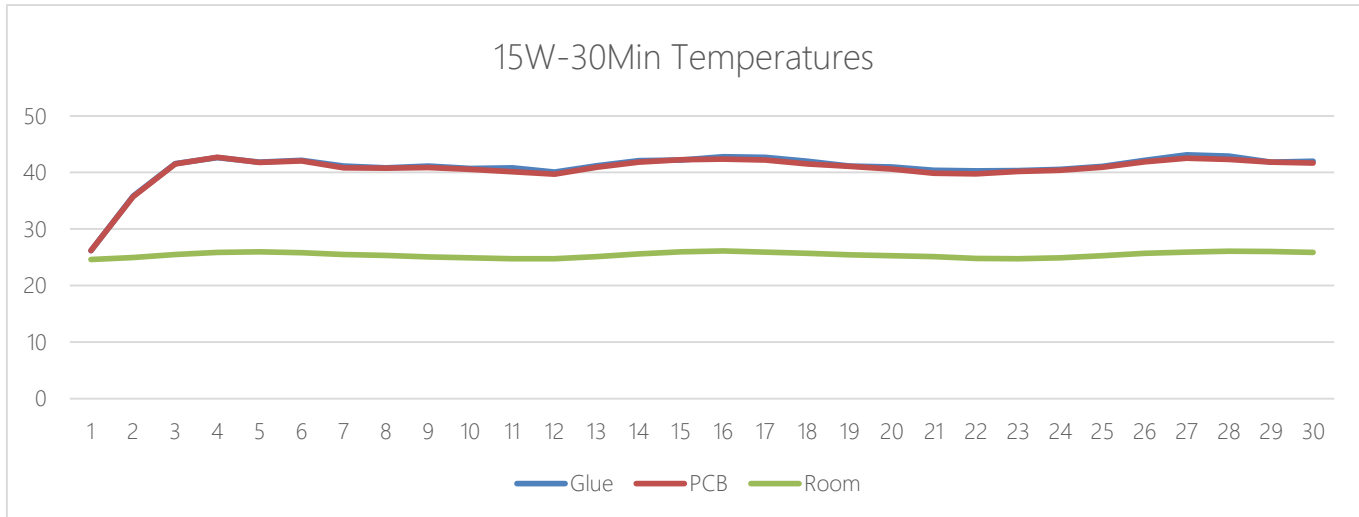
Item NO.	TLN-COB15-XXXX, where XXXX = 2400,2700,3000,4000 or customized on request					
Input Voltage	12Vdc			24Vdc		
Cutting Length	22.73mm			45.45mm		
PCB	10mm, white					
Power	15W/m					
Ra	Ra 80+			Ra 90+		
CCT	2700K	3000K	4000-6500K	2700K	3000K	4000-6500K
Lm/m	1425	1500	1575	1200	1275	1425
Lm/W	95	100	105	80	85	95
Size	W 10mm H 1.6mm L5,000mm					
Lifespan	50,000 H					
Working Temperature	-20°C - 40°C					
Storage Temperature	-20°C - 45°C					
Warranty	5 years					

* The above measurements of watts, brightness and efficiency allowance tolerance $\pm 10\%$.

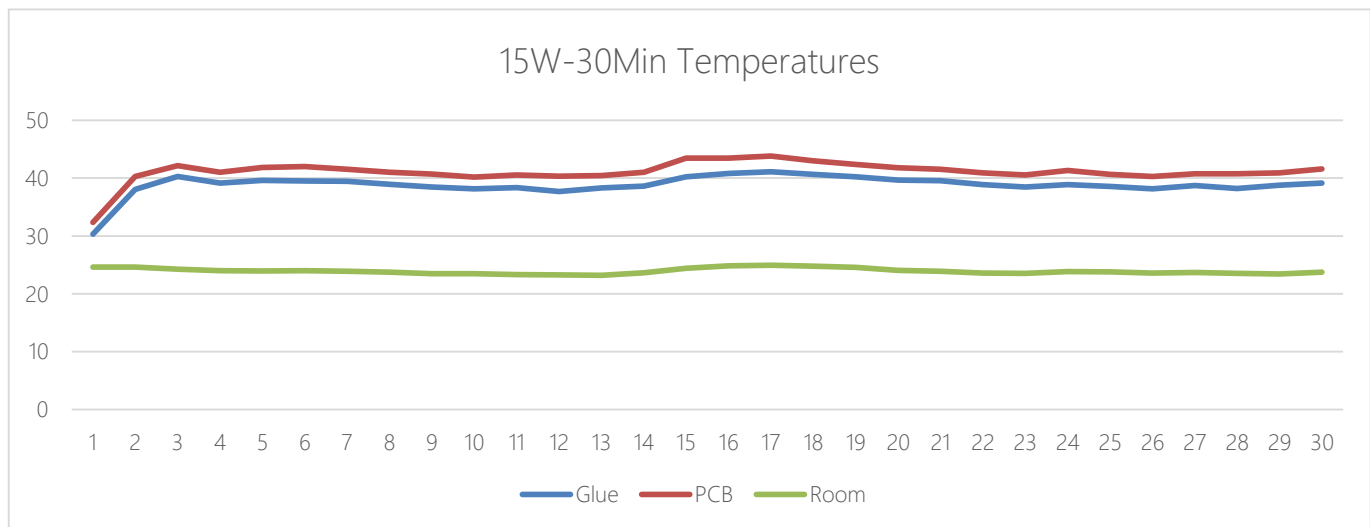
* The above measurements are based on IP20.

Temperature Curve

12Vdc



24Vdc



* The above curves based on 30 minutes testing data. The Temp. changes after powering within 30 minutes.

* The x-axis indicates the minutes from 1 minutes to 30 minutes.

* The y-axis indicates the changes of temperatures in Glue, PCB and Room.

Brightness Consistency

The following charts shows the voltage, lumen and brightness drop on each meter.

12Vdc

Chart1, Based on 5m Running

Length	1m	2m	3m	4m	5m
Voltage	11.37	11.03	10.82	10.73	10.71
Lumen	904.34	573.96	369.90	282.45	263.01
Drop	0.00%	-36.53%	-59.10%	-68.77%	-70.92%

Chart2, Based on 4m Running

Length	1m	2m	3m	4m
Voltage	11.40	11.07	10.89	10.88
Lumen	933.49	612.83	437.92	428.20
Drop	0.00%	-34.35%	-53.09%	-54.13%

Chart3, Based on 3m Running

Length	1m	2m	3m
Voltage	11.44	11.18	11.08
Lumen	972.36	719.72	622.55
Drop	0.00%	-25.98%	-35.98%

Chart4, Based on 2m Running

Length	1m	2m
Voltage	11.56	11.44
Lumen	1088.97	972.36
Drop	0.00%	-10.71%

From above charts, for better brightness consistency, the recommend length is 2m for powering on one side.

24Vdc

Chart1, Based on 5m Running


Length	1m	2m	3m	4m	5m
Voltage	23.58	23.21	22.98	22.92	22.91
Brightness	1432.12	1259.04	1151.45	1123.39	1118.71
Drop	0.00%	-12.09%	-19.60%	-21.56%	-21.88%

Chart2, Based on 4m Running

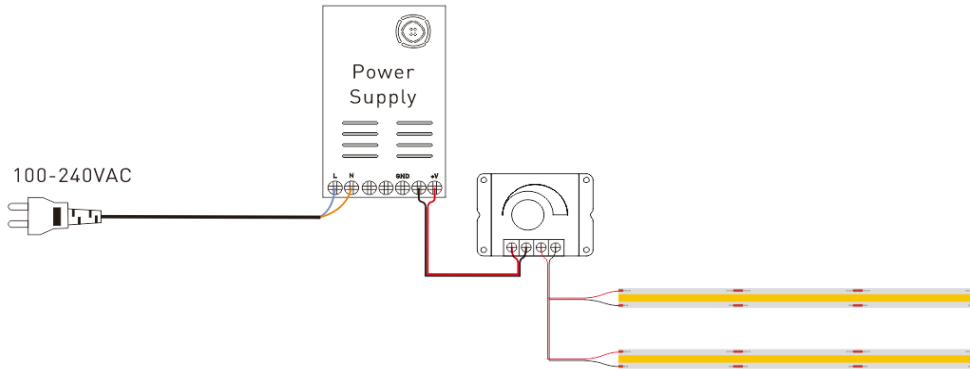
Length	1m	2m	3m	4m
Voltage	23.6	23.35	23.2	23.15
Brightness	1441.47	1324.53	1254.36	1230.98
Drop	0.00%	-8.11%	-12.98%	-14.60%

From above charts, for better brightness consistency, the recommend length is 5m for powering on one side.

Waterproof Ways

Waterproof Ways	IP Rating	Details
	IP65	Injected with Silicone Tube or Heat Shrink Tube

Installation Ways



* Make sure of the total watts of COB Strip Lights is less than 80% of the power supply's max output.

* Match the polarities according to the mark ('+' and '-') in the PCB while connecting.

Applications

* Residential lighting, decorative lighting, indirect lighting.



Package

①) 5 meters per roll.

②) Each roll packed with anti-static bags, and label on it.

③) 25 rolls into a inner box(30cm x 24cm x 26cm).

④-⑤) 2 inner boxes into a large carton (50cm*30cm*29cm).

