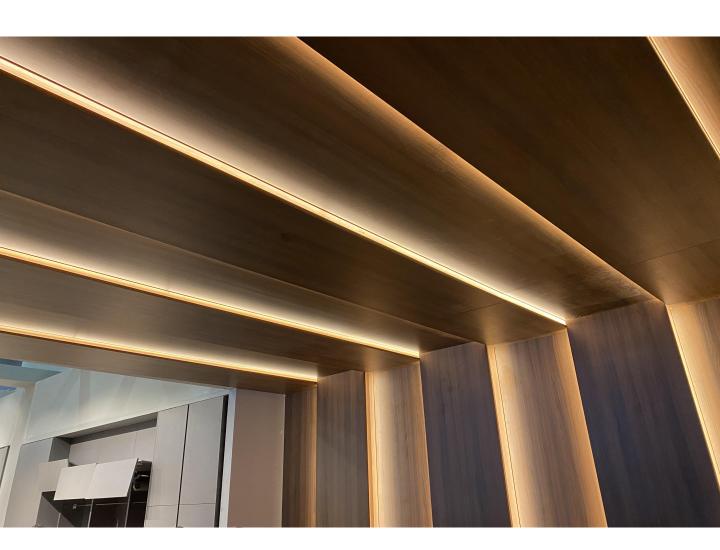
Linear Lighting – RM0831MC-A-L

544 Chips/m-24V-8mm COB Dimmable White Flexible Strip (Double wires solution)



Technical Application Guide





Version: 7.0

Issued on: Feb 2nd, 2024



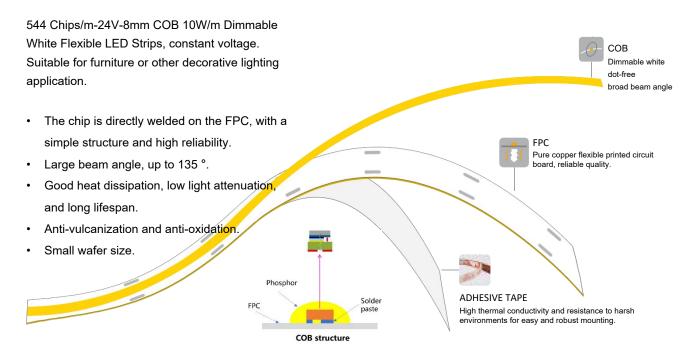








544 Chips/m-24V-8mm COB Dimmable White Flexible Strip



Reliability

Category	Item	Reference Standards	Test Conditions	Result	
IDda taat	Waterproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH	IP20 - IP65 IP67	
IP grade test	Dustproof test	GB/T 4208IEC 60529	25±2°C @≤65%RH		
Safety test	Flame retardant test	GB7000.1IEC 6059801	25±2°C @≤65%RH	Pass	
Environmental test	Hi-Low temperature cycle test	GB/T 2423.22IEC 60068-2-14	-40°C@30mins →25°C@5mins →85°C@30mins →25°C@5mins →-40°C@30mins; 168 hours	Pass	
	Thermal shock	GB/T 2423.22IEC 60068-2-14	-40°C → 70°C 100 circles	Pass	
	Hi-temperature storage test	GB/T 2423.3IEC 60068-2-78	Ta=80°C	Pass	
	Low-temperature storage test	GB/T 2423.1IEC 60068-2-1	Ta=-40°C	Pass	
	Hi-temperature & Hi- Humidity Life	GB/T 2423.2IEC 60068-2-2	Ta=70℃ @ RH=90%	Pass	
	UV test	GB/T 16422.3ISO 4892-3	50±3°C,10±5%RH,Exposed at radiation 5 hours, spaying water 1 hour in 20±3°C,4 circles	Pass	











544 Chips/m-24V-8mm COB Dimmable White Flexible Strip



544 Chips/m-24V-8mm







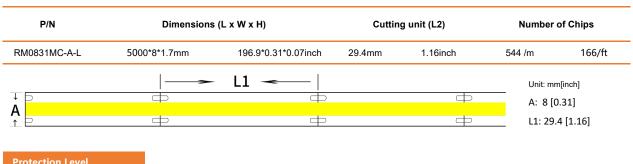




2700K ~ 5700K



3-year warranty



Protection Level



Basic Parameters:

						Luminous	Luminous				Working current (mA)	Power (W/m)		
P/N	LED Color	CCT (K) WL (nm)		CRI		Beam Flux Angle(°) (Lm/m)		Efficacy (Lm/W)		Working voltage (V DC)		m[39.37in]	1m[39.37i n]	
RM0831MC-	Warm white	2700		>90	135	0	750	7	'5	24		417	10	
A-L	Cool white	5700		>90	135	•	900	g	90	24		417	10	
P/N	Qty (m/reel)			_	Total Total weight		Outer carton							
			Qt	,	Total weig		weight length	jth	width		height			
				(m		(Kg)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	
RM0831MC-A-L	5		500	500)	11.5	25.35	425	16.73	325	12.79	325	12.79	
P/N	IP Crede	Operating IP Temperature Grade			Storage Temperature		Stan	dard length	Max	. cascading length	Chip Qty		Weiç	ght
	Grade	(°C)	(°F)	(°C)	(°F)	(m)	(inch)	(m)	(inch)	(pcs)		(g/m)	(lb/m)	
RM0831MC-A-L	IP20	-25~	-13~	-25~	-13~	5	196.9	5	196.9	544		19	0.042	
	20	+60	+140	+70	+158									





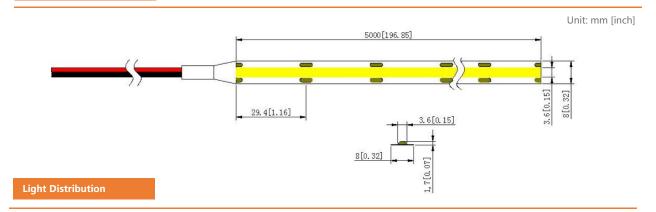


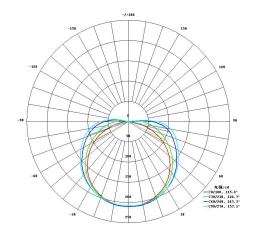


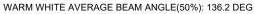


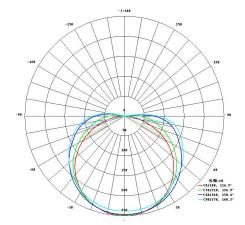
544 Chips/m-24V-8mm COB Dimmable White Flexible Strip

Profile Drawings









COLD WHITE AVERAGE BEAM ANGLE(50%): 134.6 DEG

Optional Parts:

Category	Part Name	Figure	Specifications/Description	Article Number	Color	IP Grade	Notes
Snap-fit joints	Snap-fit joints	Can't	Snap-fit joints /23.5*4*2mm/QJ-KZ-10 (equipped with screws)	207-076	/	1	/
	Connector	MAN	10mm width, single color, IP20 COB strips/ board-board connector /13.5*11.5*4.9mm/PVC/HR-S-SC-2PIN- 10MM-A	1CN-07- 208	I	1	1
Terminal Connector	Connector	11/1	10mm width, single color, IP20 COB strips/cable-board connector/13.5*11.5*5,7mm/PVC/HR-S-SC- 2PIN-10MM-D	1CN-07- 207	I	1	/
	Connector	- W	Connector /cable-cable /25*6.7*6.65mm/1P/QJ- XC-JXD-D1	1CN-07- 065	1	1	/
	Connector		Connector / cable-cable /25*10.6*6.65mm/2P/QJ-XC-JXD-H2	1CN-07- 066	1	1	/
_	Connector	1	Connector / cable-cable /25*12.8*6.65mm/1P/QJ-XC-JXD-T1/	1CN-07- 067	1	1	1
_	Connector	A STATE OF THE STA	Connector / cable-cable /28.6*16.6*6.65mm/2P/QJ-XC-JXD-T2/	1CN-07- 068	1	1	/
_	Connector		Connector / cable-cable /22*9.5*6mm/2P/QJ- XC-JXD-D2/	1CN-07- 069	/	1	/

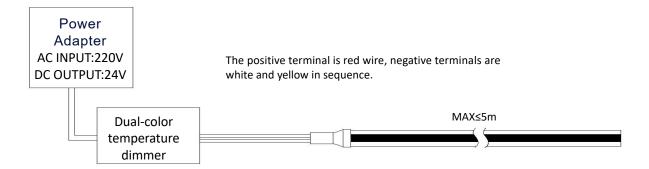


544 Chips/m-24V-8mm COB Dimmable White Flexible Strip

Packaging Diagram



Connection Instruction



Parts & Tools



Led Strip



Electrical Drill & Drilling bit



Scissor

Installation Steps



Make sure the mounting surface is clean before installation.



Calculate the needed length and cut off the extra length along the cutting mark if necessary. If wires are needed, please weld them at the next location with a printed mark.



While sticking strips, peel off the release paper of the tape step by step. Don't peel off all at a time to avoid getting your strip in a mess.

△Notes: No pressing the LED!



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Installation Steps



Stick Mylar tape to isolate the cutting position from the bottom of profile inner slot to avoid short-circuit.



The installation at the corner is shown as the figure.

 \triangle Notes: No bending it into right angle; No twisting it to stick on the mounting surface.

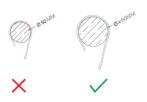


Connect strip wires to the output terminal of the power supply, and dispose with waterproof, insulation, short-circuit, and anti-corrosion protection at wire joints and cut section of your strip (if any).

Installation Attention



Do not twist the strip.



Do not wind the strip with a diameter <5cm.









544 Chips/m-24V-8mm COB Dimmable White Flexible Strip

Troubleshooting

Malfunctions	Possible Causes	Solutions			
	The power supply did not connect to power grid.	Power on.			
All LEDs Stopped Working	Broken-circuit or Short-circuit.	Troubleshoot the problems and power on again.			
	The wires of strips connect to the power supply terminal reversely.	Check the connection and ensure the polarity of the wires is connected correctly.			
Part of LEDs Stopped	Part of power supplies have output failure.	Check the power supply system.			
Working	Part of wires of strips have breakdown.				
	Reverse connection of polarity.	Correct connection.			
	Overloaded power supply.	Replace it with a powerful one.			
LEDs Too Weak or Uneven	Excessive power loss of the circuit or the power loss of each circuit differs a lot.	Ensure working voltage of strips is within±5%V of rated voltage. 1. Shorten the length of wires between the first strip and power supply or replaced with wires with larger diameter. 2. Ensure the cascading qty of each circuit does not exceed the allowed range and is well distributed.			
	Excessive cascading qty in series.	Adjust the cascading qty for strip to ensure the qty for each electrical circuit is within the maximum cascading qty.			
L EDo Eliakarina	Exposed or loose joints of wires.	Find out and tackle malfunction immediately.			
LEDs Flickering	Failures in power supply.	Replace it with a new one.			

Declaration

- · If the external flexible cable is damaged, please replace it from its manufacturer, service agent, or qualified person to avoid a hazard.
- · For the specific installation and cautions, please refer to the user manual.
- · The given data in this specification is based on our standard product. There may exist slight difference compared with actual products.
- · All Illustrations in this specification are for reference only.
- This product is subject to change or modification without prior notice.
- RISHANG OPTOELECTRONICS CO., LTD. Reserves the right of a final explanation for this specification.

Revision History

Version	Revised by	Revised item	Release date
V7.0	Wei Fan Song	first release	Feb.2.2024