

Specification

Prepared	Checked	Approved	Accepted	Confirmed	Approved

CE	RoHS	2835 SMD	140 LEDS/M	LED Strip	DC 48V	IP 67	3 Year	Erp
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Model: RDA2E0TJ-1

20000*12mm, 140 pieces per meter, 2835 surface mount bare board, constant voltage 48V high-efficiency flexible light strip (white light 8W/m)

Figure:



Features:

- 2835 SMD LEDs bring high luminous efficacy;
- Spectroscopic standard ERP, one BIN only, good color uniformity;
- CE, RoHS compliant;
- This product adopts constant current scheme, can be used in 20M long cascade;;

Applications:

- Suitable for hotel, shopping mall, home, cabinet, show frame, etc. as main lighting, indirect lighting, cove lighting, contour lighting, decorative lighting, etc.

Warranty:

- 3 years or 13000 hours, whichever comes first.
- Lifetime 30000hours.

Optical and Electrical Parameters:

P/N	LED Color	CCT (K)	CRI	SDCM	Beam Angle (°)	Luminous Flux (lm/m)	Luminous Efficacy (lm/W)	Working voltage (VDC)	Working current (mA)		Power (W/m)	
									1m[39.37in]	20m[787.4in]	1m[39.37in]	20m[787.4in]
RDA2E0TJ-1	White	2700	≥80	≤5	≥115	1016	123	48	172	2924	8	136
RDA2E0TJ-1	White	3000	≥80	≤5	≥115	1016	123	48	172	2924	8	136
RDA2E0TJ-1	White	4000	≥80	≤5	≥115	1084	129	48	172	2924	8	136
RDA2E0TJ-1	White	5000	≥80	≤5	≥115	1084	129	48	172	2924	8	136
RDA2E0TJ-1	White	6500	≥80	≤5	≥115	1084	129	48	172	2924	8	136

Others:

P/N	IP Grade	Operating Temp		Storage Temp		Standard length		Max. cascading length		LED Qty (pcs)	Weight	
		(°C)	(°F)	(°C)	(°F)	(m)	(inch)	(m)	(inch)		(g/m)	(lb/m)
RDA2E0TJ-1	IP68	-25~	-13~	-25~	-13~	20	0.787	20	0.787	140	86	0.189

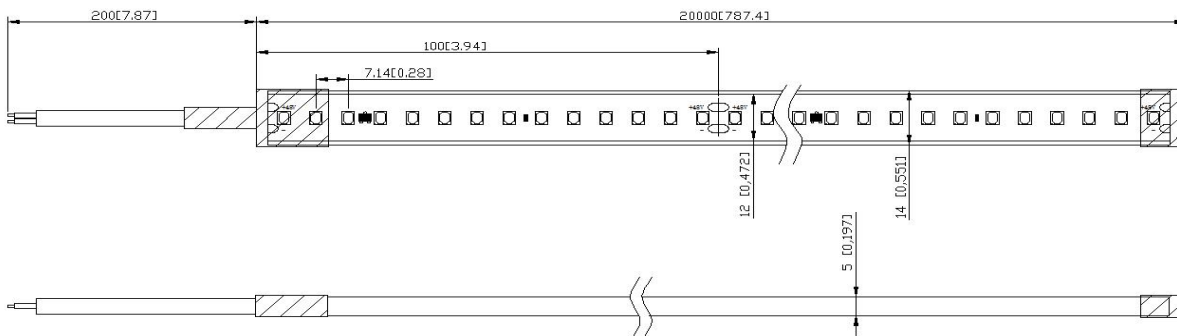
+60 +140 +70 +158

Notes:

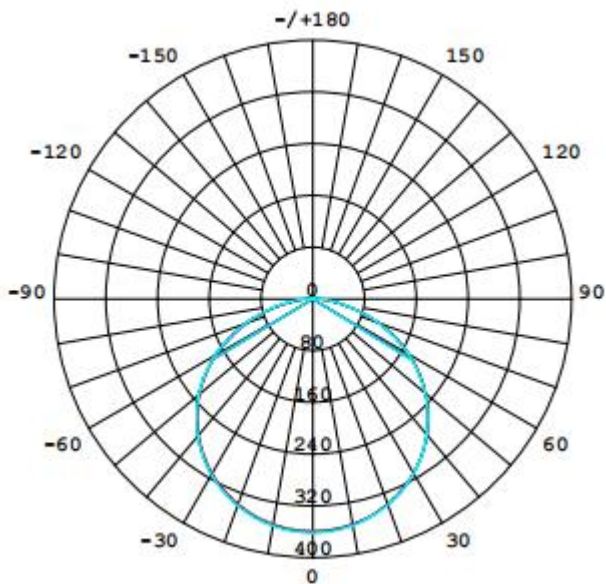
- (1) Testing environment temperature: $25\pm 2^{\circ}\text{C}$ [$77\pm 3.6^{\circ}\text{F}$];
- (2) The actual data of each single product may differ from above typical data which are subject to change without prior notice;
- (3) The above "--" means the parameters are not required temporarily

Profile Drawings:

Unit: mm[inch]



Light Distribution/Iso-illuminance Diagram:



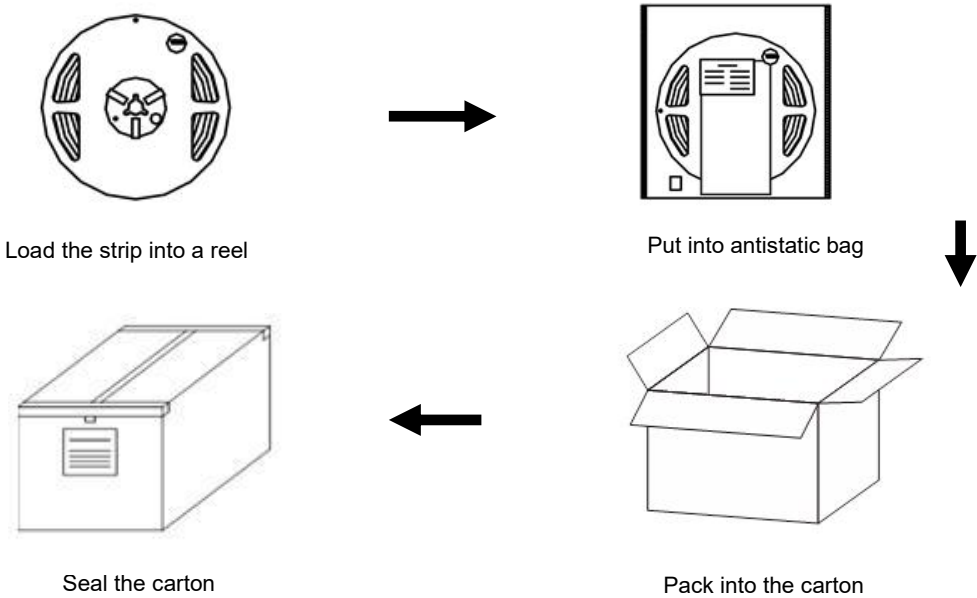
Flux out: 827.4 lm

3.281ft 1m	8.834, 33.61fc 95.09, 361.81lx	10.74ft 327.43cm
6.562ft 2m	2.208, 8.403fc 23.77, 90.45lx	21.48ft 654.85cm
9.843ft 3m	0.9816, 3.735fc 10.57, 40.20lx	32.23ft 982.28cm
13.12ft 4m	0.5521, 2.101fc 5.943, 22.61lx	42.97ft 1309.71cm
16.4ft 5m	0.3534, 1.345fc 3.804, 14.47lx	53.71ft 1637.14cm
Height	Eavg, Emax	Angle: 117.16deg Diameter

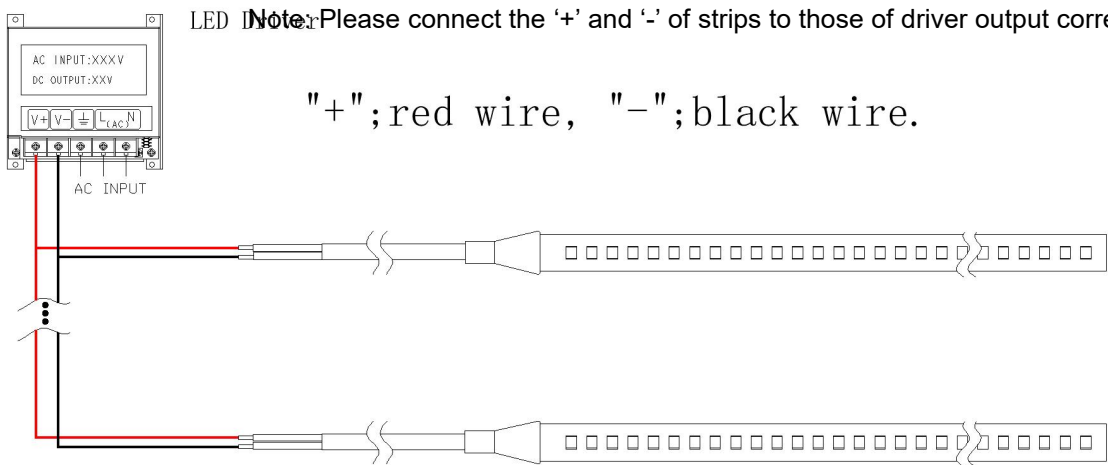
Packaging Information:

P/N	Qty (m/reel)	Qty (m/carton)	Total Qty (m)	Total weight		Outer carton					
						length		width		height	
				(Kg)	(lb)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)
RDA2E0TJ-1	20	20	240	20.6	45.4	430	16.9	340	13.4	448	17.6

Packaging Diagram:



Connection Instruction:

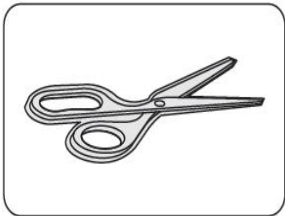


Parts & Tools:

Product Spare Parts



Self-provided Tools

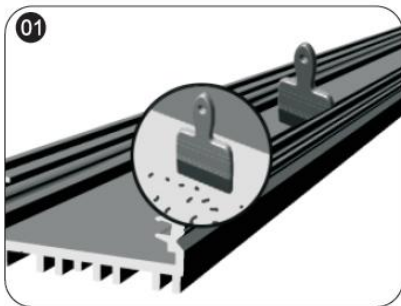


LED Strip

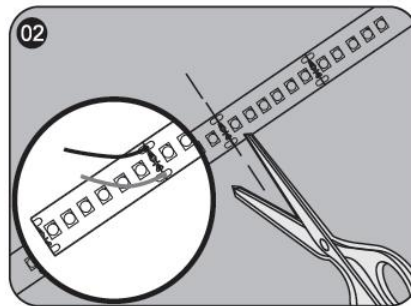
Electrical Drill & Drilling bit

Scissors

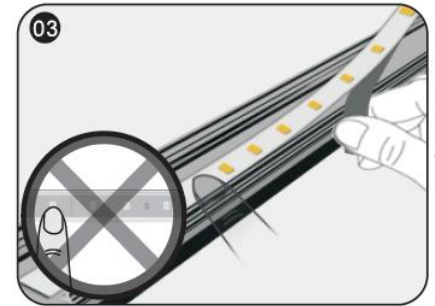
Installation Steps & Cautions:



- ◎ Make sure the mounting surface is clean before installation;



- ◎ Calculate the needed length and cut off the extra length along cutting mark if necessary; if need to add wires, please weld them at the next location with printed mark

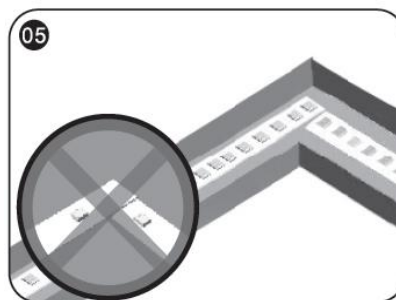


- ◎ While sticking strips, peel off the release paper of the tape step by step. Don't peel off all release paper at a time to avoid getting your strip in a mess.

△Notes: No pressing the bead!



- ◎ 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 above figure.

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



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

No twisting



Troubleshooting:

Malfunctions	Possible Causes	Solutions
All LEDs don't work	1. The power supply did not connect to power grid.	Power on
	2. No electricity due to short-circuit of external power supply.	Remove the malfunction caused by short-circuit, power on again.
	3. The wires of strips connect to power supply output reversely.	Check the connecting and ensure the wires are connected correctly.
Part of LEDs don't work	1. Part of power supplies do not have output.	Check the power supply system.
	2. Part of wires of strips have malfunction.	
	3. Particular modules connected reversely.	Correct connection
Brightness of LEDs is weak or uneven	1. Overloaded power supply;	Replace it with higher power supply
	2. The power loss of power circuit is huge or the power loss of each circuit existing big difference.	Ensure working voltage of strips is within $\pm 5\%V$ of rated voltage. 1. Shorten the length of wires between the first strip and power supply or replaced with wires with bigger diameter; 2. Ensure the cascading qty of string is less than or equal to the allowed maximum cascading qty, and each strip cascading qty is well-balanced.)
	3. Exceed in qty of strips in series	Lessen the cascading qty for strip and ensure the qty for each electrical circuit is within the maximum cascading qty.
LEDs are blinking	1. Poor contacted in the joints.	Find out and tackle malfunction immediately.
	2. Failures in power supply.	Power on

Declaration:

- If the external flexible cable of light box is damaged, please replace it by its manufacturer or its service agent or qualified person to avoid a hazard.
- 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 be existed slight difference compared with actual products.
- All Illustrations in this specification are for reference only.
- This product is subject to change or modify without prior notice.
- RISHANG OPTOELECTRONICS CO., LTD reserves the right of final explanation for this specification.

<End>

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Website



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