

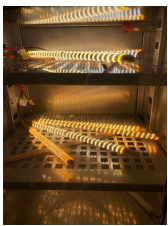
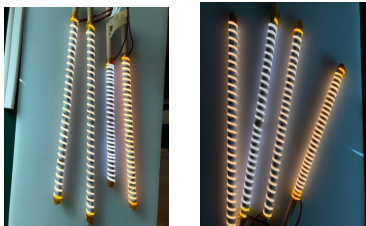


# SHENZHEN EASING HOME OPTO-ELE CO., LTD

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Product Test Report									
Product Name	COB led strip	Testers	Fangguo Li	Testing time	2020/3/2				
Test items	High temperature and high humidity test	Test type	Reliability test	Sample Qty	8				
1. Test equipment: ZH-TH-80D programmable constant temperature and humidity experiment box									
2. Test conditions: the cob led strip wrapped with dia10mm wooden stick; put into a box for high temperature 60 degrees, humidity 85%; test for more than 168 hours.									
3. Test requirements: Put into the box and keep the strip lighting									
4. Test record:									
Lights up before the test					Test parameter setting diagram				
									
Testing					The picture that lights up after 168 hours testing				
									
5. Test result: no quality problem during the test									
6. Data comparison before and after the test:									
Specification	Test Items	Color temperature(K)	CRI	Current(A)	Power (W)	Lumen(lm)	Efficiency(lm/W)	x	y
480leds 10MM-24V-10W-4000K	before testing	3976	91.7	0.3828	9.186	1035	112.62	0.3844	0.3879
	After high temperature and high humidity 168H	3975	91.9	0.3869	9.285	1056	113.69	0.3842	0.3869
480leds 10MM-24V-15W-4000K	before testing	3943	91.4	0.585	14.04	1531	109.06	0.386	0.3891
	After high temperature and high humidity 168H	3960	91.3	0.5748	13.79	1598	115.88	0.3855	0.3896
512leds 8MM-24V-10W-2700K	before testing	2684	91.8	0.4618	11.08	1073	96.82	0.463	0.4141
	After high temperature and high humidity 168H	2698	92	0.4568	10.96	1068	97.4	0.462	0.4141
480leds 4MM-24V-5W-6500K	before testing	6493	92.7	0.2142	5.14	564.2	109.75	0.3122	0.3341
	After high temperature and high humidity 168H	6615	92.8	0.216	5.184	585.3	112.91	0.3103	0.3317
480leds 10MM-12V-10W-2700K	before testing	2689	90.8	0.8222	9.865	958.4	97.15	0.4655	0.4192
	After high temperature and high humidity 168H	2703	90.8	0.8198	9.836	957.9	97.39	0.4646	0.4195
480leds 8MM-12V-10W-4000K	before testing	4038	92.6	0.6784	8.139	911.6	111.99	0.3811	0.3846
	After high temperature and high humidity 168H	4010	92.5	0.6746	8.094	929.3	114.81	0.3825	0.3859
480leds 8MM-12V-15W-3000K	before testing	3047	91	0.8428	10.11	1006	99.45	0.4369	0.4098
	After high temperature and high humidity 168H	3061	90.8	0.8492	10.19	1032	101.3	0.4362	0.4101
480leds 4MM-12V-5W-2700K	before testing	2651	90.9	0.3928	4.713	454.7	96.49	0.4689	0.4202
	After high temperature and high humidity 168H	2669	90.9	0.3934	4.72	468	99.16	0.4671	0.4194
7. Conclusion: 1. During the 168H high-temperature and high-humidity test of the COB ledstrip, the lumen and light efficiency is slightly improved, and other parameters did not change significantly. 2. Verify the minimum winding diameter of COB led strip is 10mm									