

- (√) Preliminary Specification  
( ) Final Specification

## BACKLIGHT SPECIFICATION

Product's Name: [LED49E](#)  
Customer's Model NO:

For Customer's Acceptance Customer's Name:	
Approved by	Comment

Approved by	Checked by	Designed by

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**Record of Revision**

Version NO.	Revise Date	Page	Description
0.0	2016/ 03/ 20	-	Preliminary Specification(First Draft)

## 1. General Description

### 1.1 Overview

This specification applies to Guangzhou CEJZ Technology Co.,Ltd, CEJZ430L06E1 backlight module of the whole machine.

### 1.2 Available OpenCell Ass'y

No.	Manufacturer	Model	Specifications	Transmition	Remarks
1	LG	LC490EGY-SHA2	FHD		
2	LG	LC490EGY-SHM1	FHD		
3	LG	LC490EGY-SJM1	FHD		
4	LG	LC430EQJ-SGK1	FHD		
5	LG	LC490DUJ-SGK1	FHD		
6	LG	LC490DUJ-SGE3	FHD		
7	BOE	HV490QUB-B05	UHD		
8	BOE	HV490QUB-N8A	UHD		
9	BOE	HV490FHB-N80	FHD		
10	BOE	HV490FHB-N8D	FHD		
11	BOE	HV490FHB-N8K	FHD		
12	CSOT	TT4851D01-4	UHD		
13	CSOT	ST4851D01-2	UHD		
14	CSOT	TT4851B01-1	FHD		
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24					

The above information is only for reference, please take the material as the standard.


## 2 .BACKLIGHT Configuration

### 2.1 Factory Standard Configuration

标准配置方案: 4\*17\*2 (7020双晶 120mA) + 两扩一增

#### 2.1.1 BACKLIGHT Electric Parameter(背光电气参数)

Parameter	Symbol	Value			Unit	Note
		Min.	Typ.	Max.		
BLU Voltage	U	102	--	112.2	V	IL =120mA
BLU Power	P		--	108	W	IL =120mA
BLU Current	I	--	940	960	mA	
BLU lifetime	T	30000			h	(1)

Note (1) The lifetime is defined as the time which luminance of the LED decays to 50% compared to the initial value, Operating condition: Continuous operating at  $T_a = 25 \pm 2^\circ\text{C}$ ,  $I_L = 330\text{mA}$

#### 2.1.2 BACK LIGHT Electrical Circuit (背光电路)



PER LED light bar circuit is(4)Parallel (17)Series, Backlight circuit is(8)Parallel (17)Series

#### 2.1.3 Backlight UNIT Connector Definition (背光接口)

Backlight Input connector model: PHR-2(JST) PITCH2.0mm \*2 (一路 PH2.0 2pin 插头)

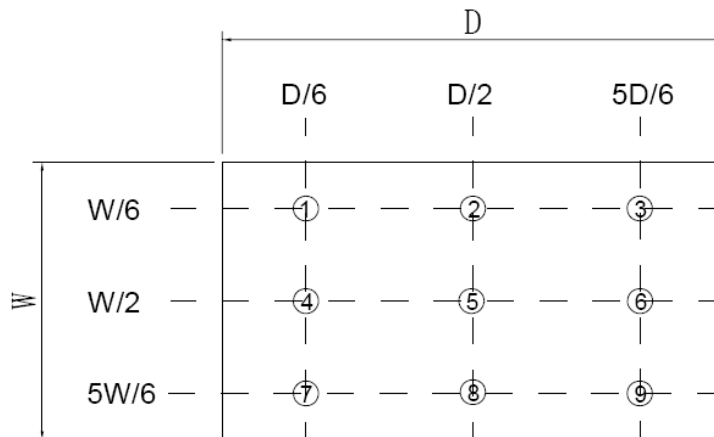


**2.1.4 BACKLIGHT Optical Characteristics (背光光学参数)**

项目	符号	最小值	典型值	最大值	单位	测试条件
电压	Vf	102	--	112.2	V	If= 960mA
电流	Ir	--	940	960	mA	If= 960mA
中心点亮度	Lv	--	6500	--	cd/m <sup>2</sup>	If= 960mA
均匀性	U	--	75	--	%	
色座标	X	0.225	0.255	0.385		IF=330mA Ta=25℃ Each chip
	Y	0.200	0.220	0.250		

- 注 1: 测试条件: 1) 时间: 点亮 5 分钟后;  
 2) 测试环境: 暗室 (10Lux 以下)  
 3) 辉度、色坐标测试点: 见下图  
 4) 光学特性测试点图

注 2: 均匀性  $\Delta I = (I_{MIN} \div I_{MAX}) \times 100\%$

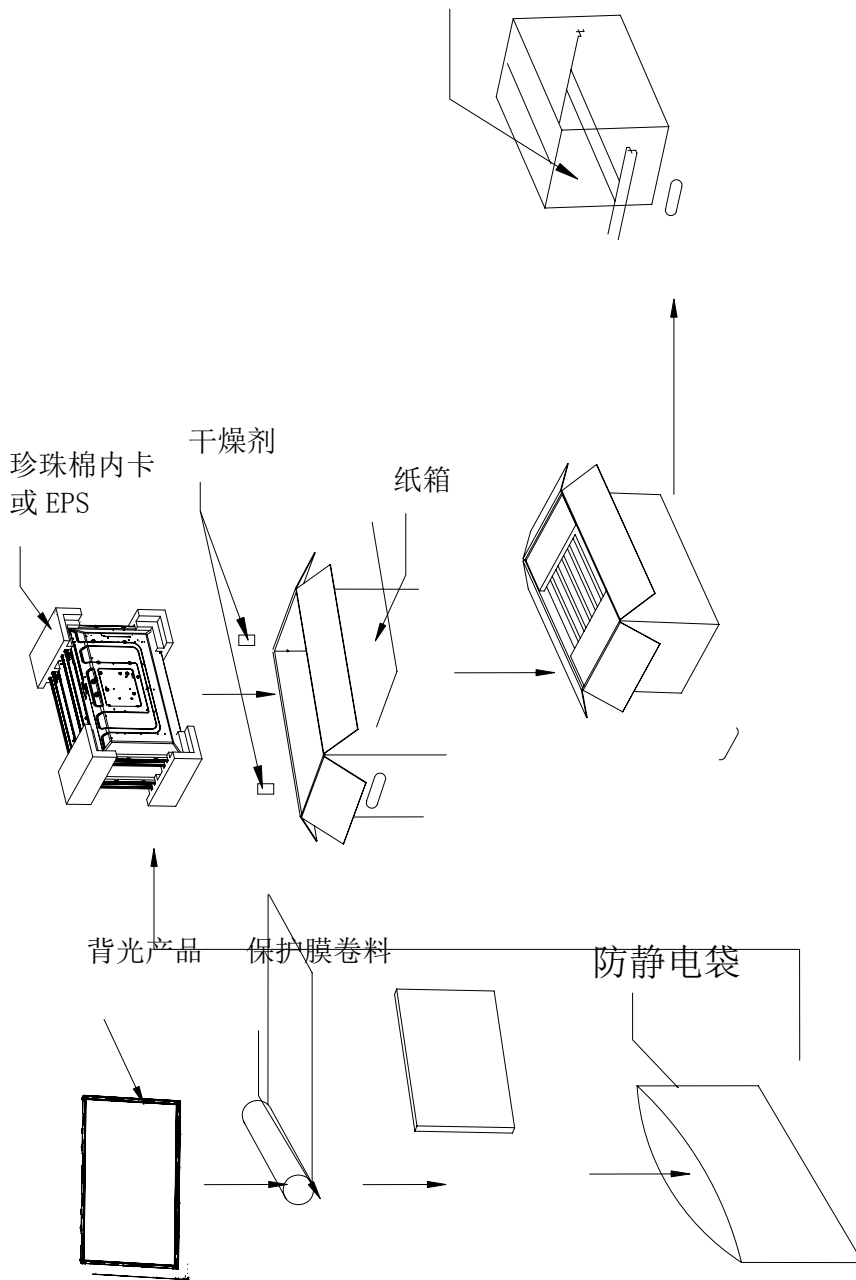


**3. Reliability Test**

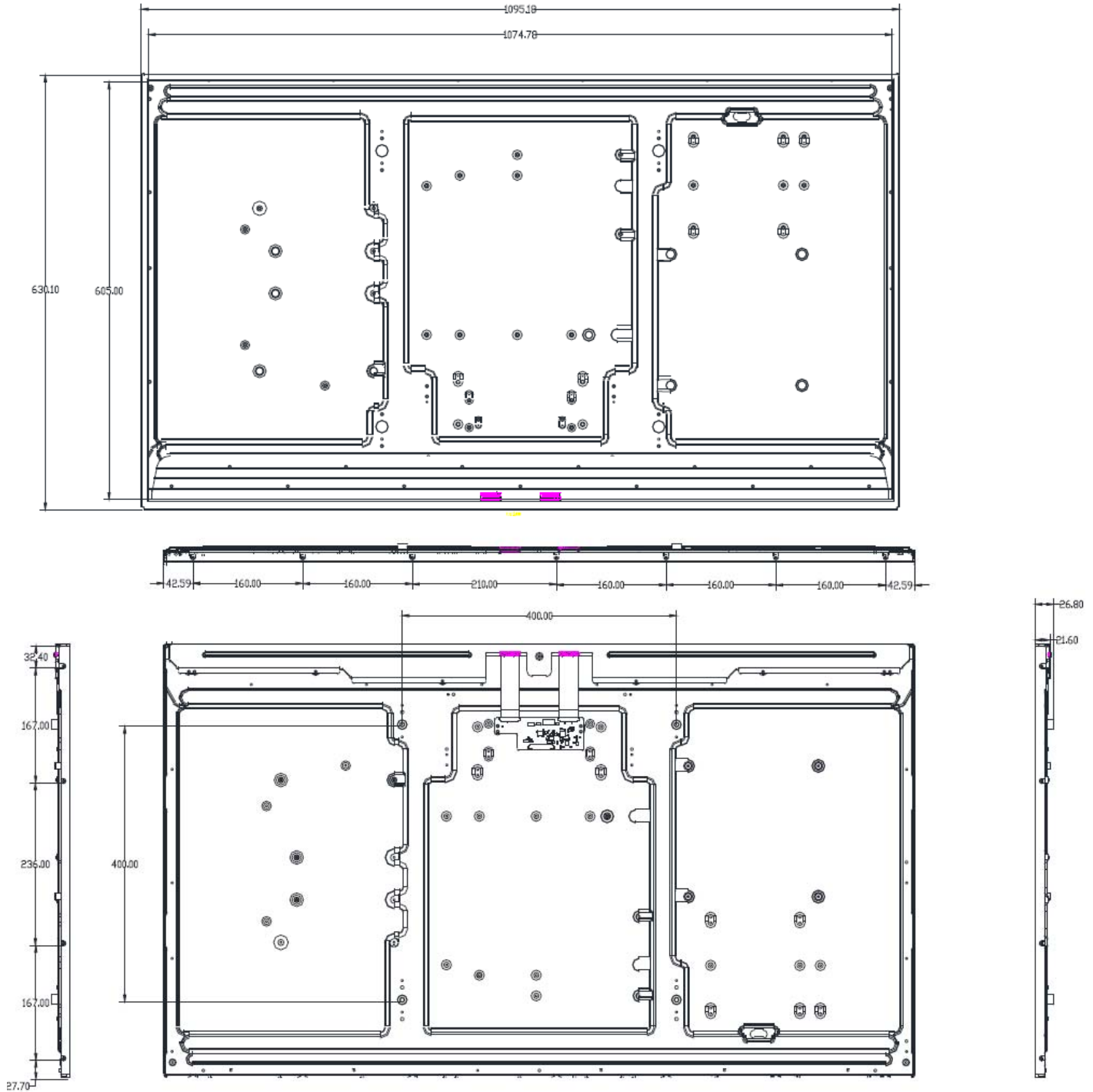
	Test Item	Q'ty	Condition
1	High temperature storage test	3	60℃,300hrs
2	Low temperature storage test	3	-20℃,300hrs
3	High temperature operation test	3	50℃,300hrs
4	Low temperature operation test	3	-5℃,300hrs
5	Drop test (With carton)	3	Height: 50cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)

#### 4. Package Specification

1 个纸箱装满共 4PCS 产品



5.Mechanical Drawing





**6. Impression Drawing**

