



BACK LIGHT

MODEL NO:**BLB-7067F-W**

Device Number:DEA-852-001 REV:1.1

ECN:_____ Page:1/5

■ **Features:**

- Long Life and Low Power Consumption than CCFL
- Free selection of color chromaticity with four white type
- Free Design

■ **Descriptions:**

The white LED light source which was fabricated using a blue LED and a phosphor, and the phosphor is excited by blue light and emits yellow fluorescence. The mixture of blue light and yellow light results in a white light emission.

■ **Applications:**

- Backlighting for LCD
- Illumination source for instrumental panel
- Other types of displays, decorating lights

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[http: //www.everlight.com](http://www.everlight.com)

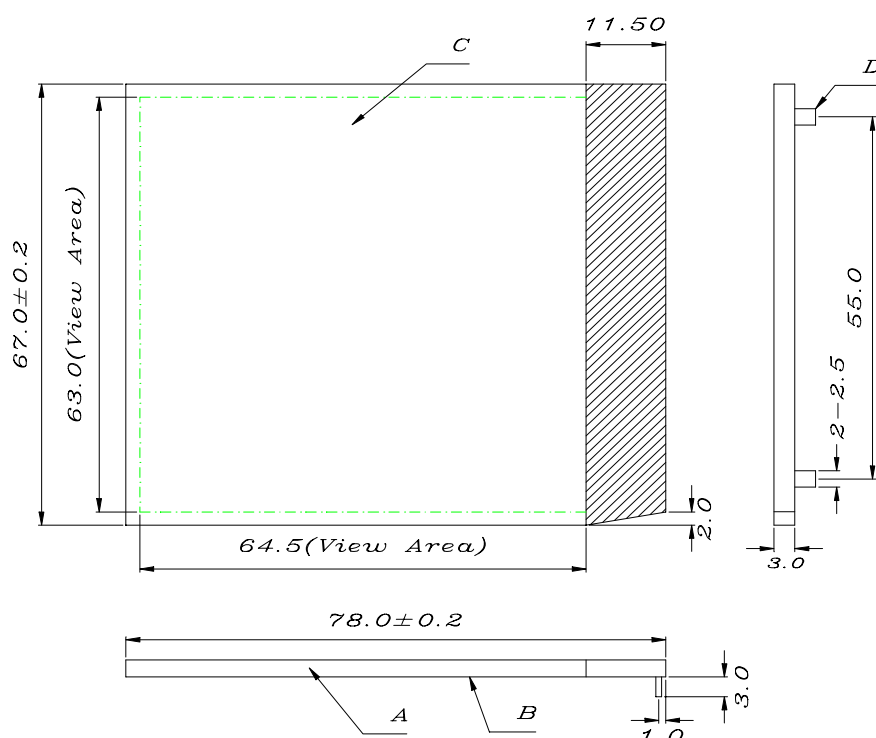
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■ Package Dimensions:



NO.	PART	MATERIAL
A	Light Guide	PC
B	Reflective Film	PE
C	Diffusive Film	PE
D	PCB	FR4

1.All dimensions are in millimeters.

2.Tolerance is ± 0.1 mm unless otherwise noted.

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■ Absolute Maximum Ratings(Ta=25℃):

Parameter	Symbol	Rating	Unit
Forward Current	I_F	25	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	0.8	W
Operating Temperature	T_{opr}	-20 to +60	℃
Storage Temperature	T_{stg}	-30 to +70	℃
Soldering Temperature * ¹	T_{sol}	260	℃

*1: Soldering time $\leq$ 5 seconds.

■ Electro-Optical Characteristics (Ta=25℃):

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Forward Voltage	V_F	$I_F=20\text{mA}$	--	21	24	V	*1
Reverse Current	I_R	$V_R=5\text{V}$	--	--	10	μA	
Luminous Intensity	I_V	$I_F=20\text{mA}$	65	--	--	cd/m^2	
Illuminance Power Deviation		$I_F=20\text{mA}$	--	--	35	%	*3
Chromaticity	x	$I_F=20\text{mA}$	--	0.28	--		*2, *3
Coordinates	y		--	0.29	--		

*1. The Led is sensitive to static electricity and care must be fully taken when handling products.
Electrostatic Discharge Threshold (200V).

*2. The chromaticity coordinates tolerance is ± 0.03 unless otherwise noted.

*3. The test position and method below:

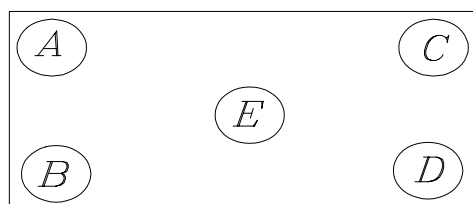


Figure 1 : Point for testing deviation → A, B, C, D, E

Measuring Method: (Ta=25℃, 65%RH)



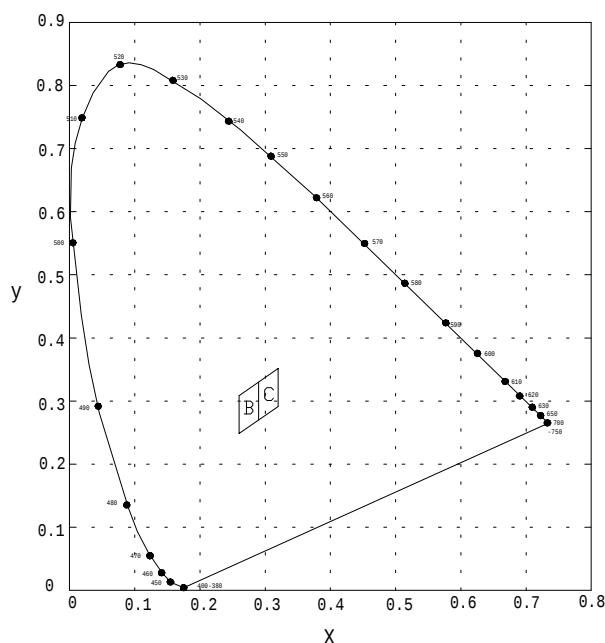
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■ CIE Chromaticity Diagram:



* The C.I.E. 1931 chromaticity diagram

■ Chromaticity Coordinates Specifications for Bin Grating:

Rank			Chromaticity Coordinates			
B	B1	x	0.260	0.260	0.275	0.275
		y	0.250	0.310	0.320	0.260
	B2	x	0.275	0.275	0.290	0.290
		y	0.260	0.320	0.330	0.270
C	C1	x	0.290	0.290	0.305	0.305
		y	0.270	0.330	0.340	0.280
	C2	x	0.305	0.305	0.320	0.320
		y	0.280	0.340	0.350	0.290
Tolerance			±0.03			



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■Reliability Test:

Item	Conditions	Jusification Criteria
High Temperature/ High Humidity Storage	70℃ ,85%RH,1000hr	A,B,C
High Temperature Storage	70℃ ,1000hr	A,B,C
Low Temperature Storage	-30℃ ,1000hr	A,B,C
Room Temperature DC Operating Life	25℃ ,60±10%RH, 1000hr/20mA	A,B,C

* Justification criteria:
A: Not one of LED is failed.
B: Not allowed to have scraping, discoloration,distortion.
C: The variation of brightness must not to be over 30% of initial value luminous intensity.

■Circuit Diagram:

