LIGHT SOURCE
MODEL NO: EL-8309-12

■Features

- Excellent electrical & optical characteristics
- Low power dissipation
- Good light uniformity
- High reliability & long life

■Descriptions

The product is assembled with lens and a row of AlGaAs/GaAs red LED mounted on PC board. The length of connector consisted of RED/BLACK(+/-) wires is 40 mm. The output of emitting light is a uniformity line light source.

The product gets excellent light output operated at 5V and suitable as a light source of Facsimile and Image scanner.

■Applications

- Facsimile
- Image scanner
- Bar code reader

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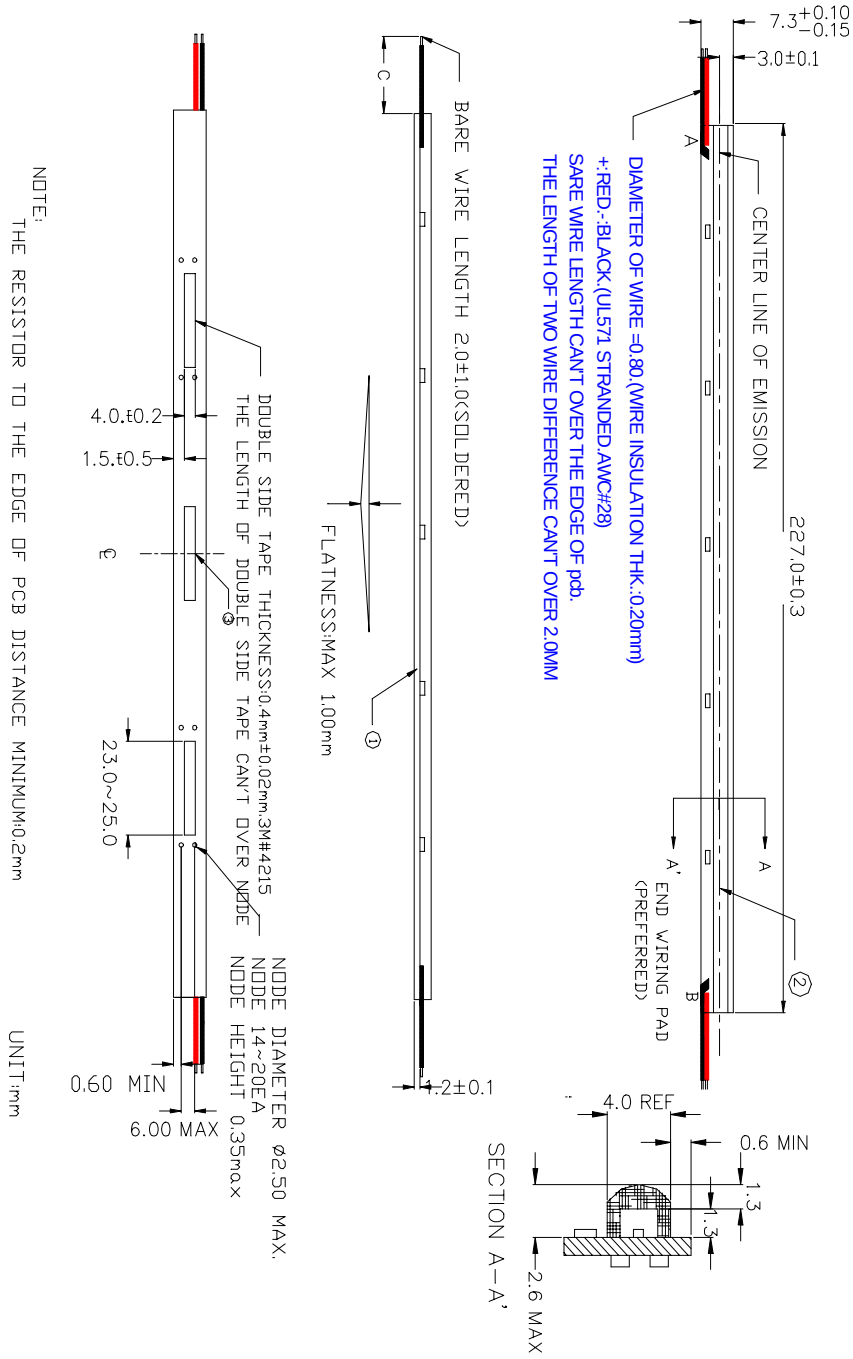
TEL: 886-2-2267-2000,2267-9936(22Lines)

FAX: 886-2-2267-6189

http: //www.everlight.com

■ Package Dimension:



■Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Units
Power dissipation	P_O	2.5	W
Forward current	I_F	170	mA
Reverse voltage	V_R	16	V
Operating temperature	T_{OPR}	0~+50	℃
Storage temperature	T_{STG}	-25~+75	℃

■Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Forward current	V_{DD}	V_{DD}=12V	--	--	170	mA
Reverse current	I_F	V_R=16V	--	--	100	μA
Illuminance	L_{up}	V_{DD}=12V	800	1200	1600	L_X
Effective light length	L	V_{DD}=12V	216	--	--	mm
Uniformity	U_P	V_{DD}=12V	--	--	15	%
Effective Illuminated	△L	V_{DD}=12V	--	4	--	mm
Peak emission wavelength	λ_P	V_{DD}=12V	--	570	--	nm
Spectral line half width	△λ	V_{DD}=12V	--	30	--	nm

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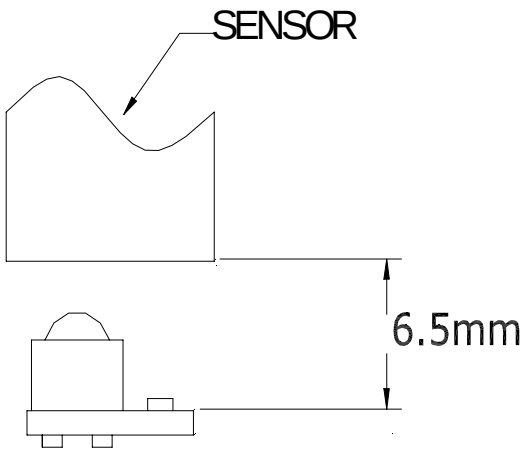
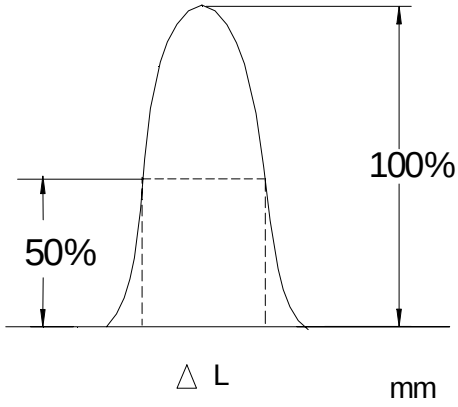
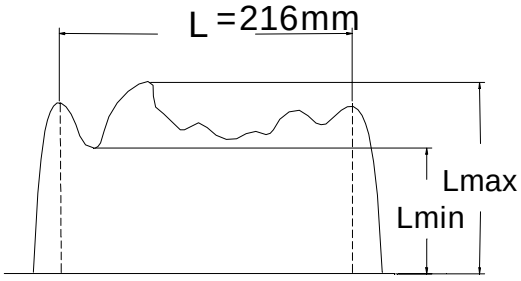
- **Attach height**



- **Effective illuminated half width**

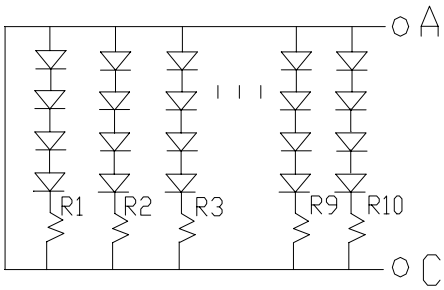


- **Uniformity**



$$up = \frac{Lmax - Lmin}{Lmax + Lmin} * 100\%$$

■Circuit diagram:



4*10=40