

## AB-GES-L15106Wxx4T1

### Features & Applications

#### Features:

- 6W Linear AC LED light engine
- SimpleDrive® - 120V AC drive technology
- Max Qty in series: 20
- Driver on Board structure
- Long life - No Electrolytic capacitors
- Easily to be integrated
- UL Compliance

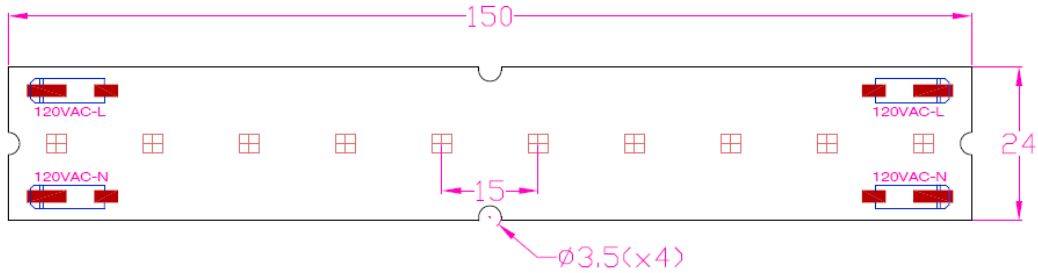


#### Applications:

- Refrigerator light
- Under-cabinet
- Ceiling light



## Outline Dimensions



Units: mm

### Notes:

1. 4 pcs terminal block is used for the serial connection and No wire connected.
2. Thickness of PCB is 1.2mm, there's thermal tape in the back side of Module
3. Tolerance of dimension is  $\pm 0.15$ mm
4. If this need to pass the UL1598, it's necessary to add the Insulating thermal pad with 284x28(1.0mm thickness) at least.
5. Please use plastic screw for passing the safety regulation.



## Characteristics

### Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Input Voltage	V <sub>in</sub>	130	Vac
LED Junction Temperature	T <sub>J</sub>	115	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ 100 °C	°C
Operation Temperature	T <sub>opr</sub>	-40 ~ 85 °C	°C

- Proper current rating must be observed to maintain junction temperature below maximum at all time. For this product, we suggest to keep the Temperature of TC point under 75°C, and the temperature of Top IC surface under 115°C. After passing the maximum temperature of IC, the rating current will be lower automatically for protecting the whole circuit.

### Electrical Characteristics, Ta=25°C

Parameter	Symbol	Min.	Max.	Unit
Input Voltage	V <sub>in</sub>	110	130	Vac
Input Frequency	Freq.	50/60		Hz
Power Factor	PF	0.9	0.95	-

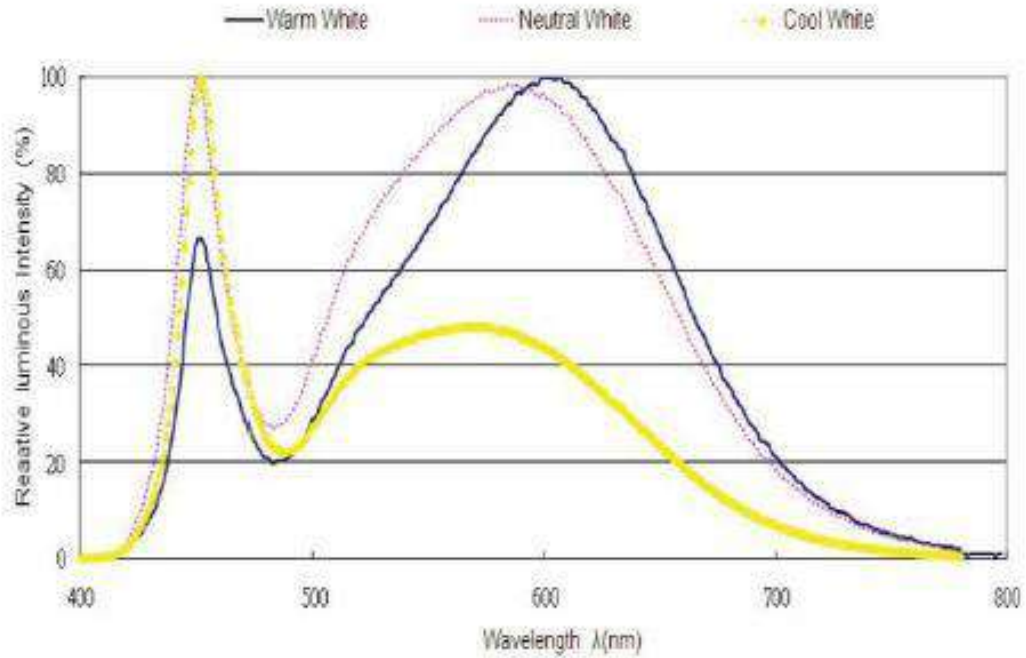
\* This surge protection is without the protection device circuit.

### Optical Characteristics (V<sub>in</sub>=120V), Ta=25°C

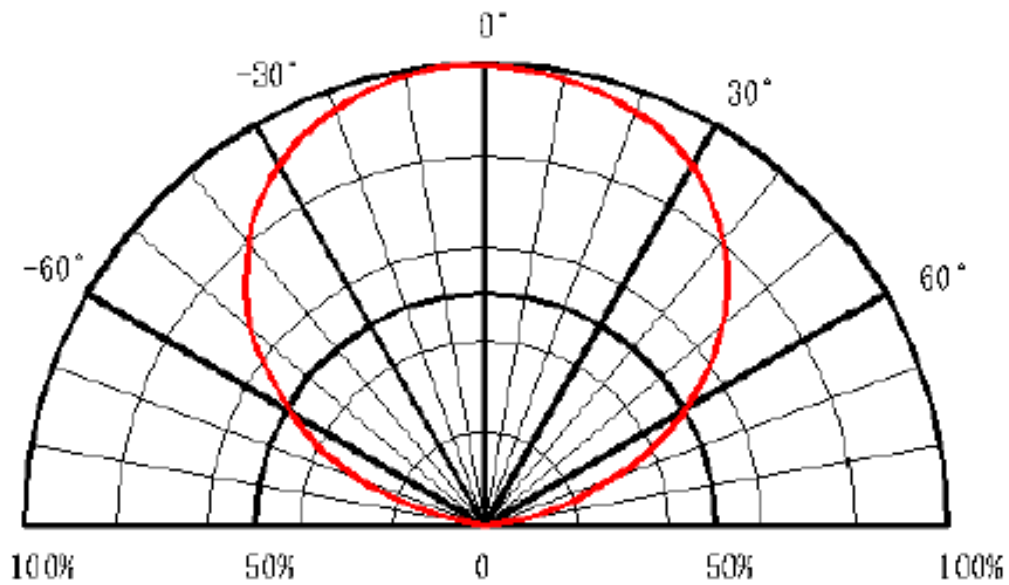
Model name	AC Power			Color Temp (K)	Luminous Flux(lm)		CRI
	Min	Typ.	Max		Min	Typ	
AB-GES-L15106W304T1	5.6	6.0	6.8	3000	530	600	>80
AB-GES-L15106W404T1	5.6	6.0	6.8	4000	580	630	>80
AB-GES-L15106W504T1	5.6	6.0	6.8	5000	580	630	>80

- Correlated color Temperature is derived from the CIE 1931Chromaticity diagram.
- The luminous flux tolerance is ± 10%.
- This CRI value tolerance is ± 2.
- Calibration accuracy of CIE<sub>x</sub> and CIE<sub>y</sub> : ±0.007 ;
- Calibration error CCT 3000K ±175K ; 4000K ±300K ; 6500K ±400K

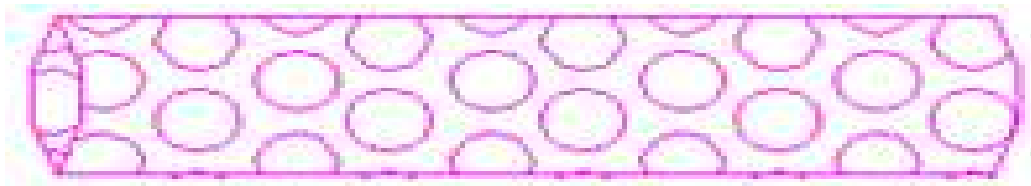
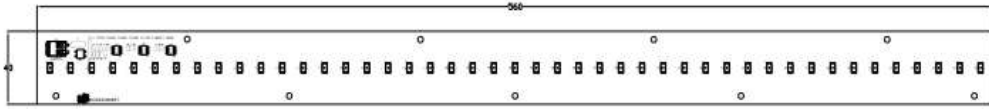
■ **Relative Spectrum of Emission (Ta=25°C)**



■ **Radiation Pattern**



## Packing



1 Box = 200 PCS (about 4 Kgs)

Box size (L x W x H) = TBD

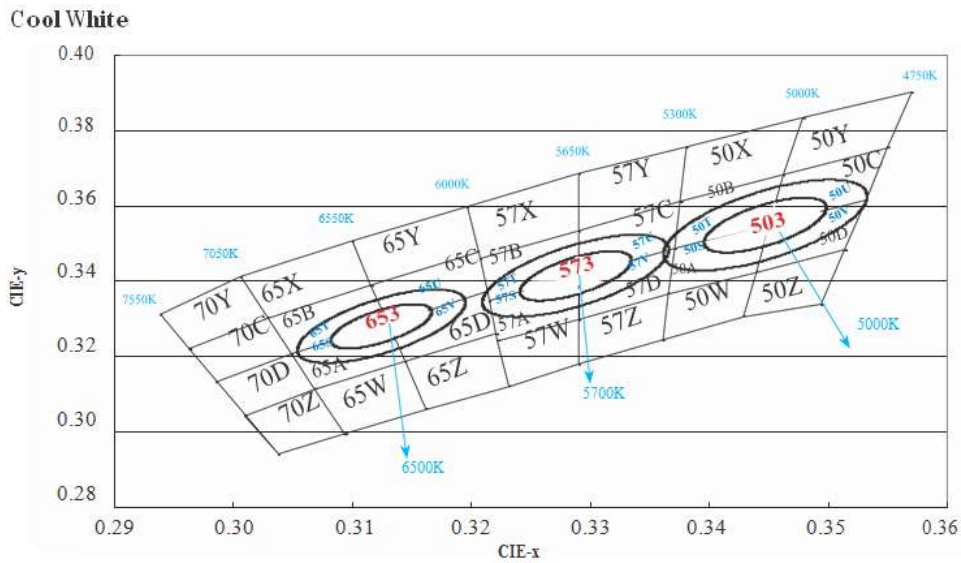


## Color Bin Code

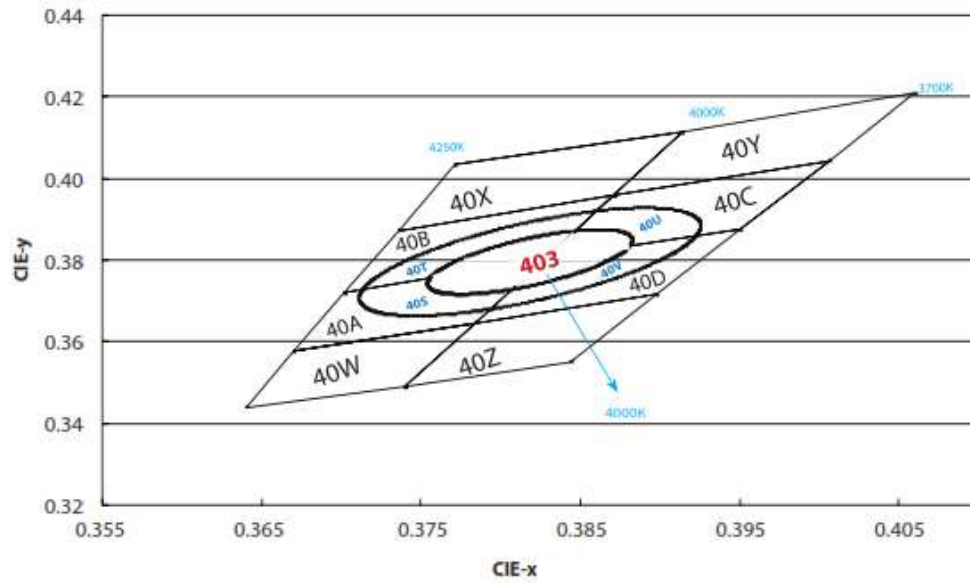
Color region stays within Macadam "3-Step" ellipse from the chromaticity center. The chromaticity center refers to ANSI C78.377:2008.

Please refer to ANSI C78.377 for the chromaticity center.

CCT	Steps	Cx	Cy	a	b	theta
2700K	3	0.4578	0.4101	0.00810	0.00420	53.70
3000K	3	0.4338	0.4030	0.00834	0.00408	53.22
3500K	3	0.4073	0.3917	0.00927	0.00414	54.00
4000K	3	0.3818	0.3797	0.00939	0.00402	53.72
5000K	3	0.3447	0.3553	0.00822	0.00354	59.62
5700K	3	0.3287	0.3417	0.00746	0.00320	59.09
6500K	3	0.3123	0.3282	0.00669	0.00285	58.57



**Neutral White**



**Warm White**

