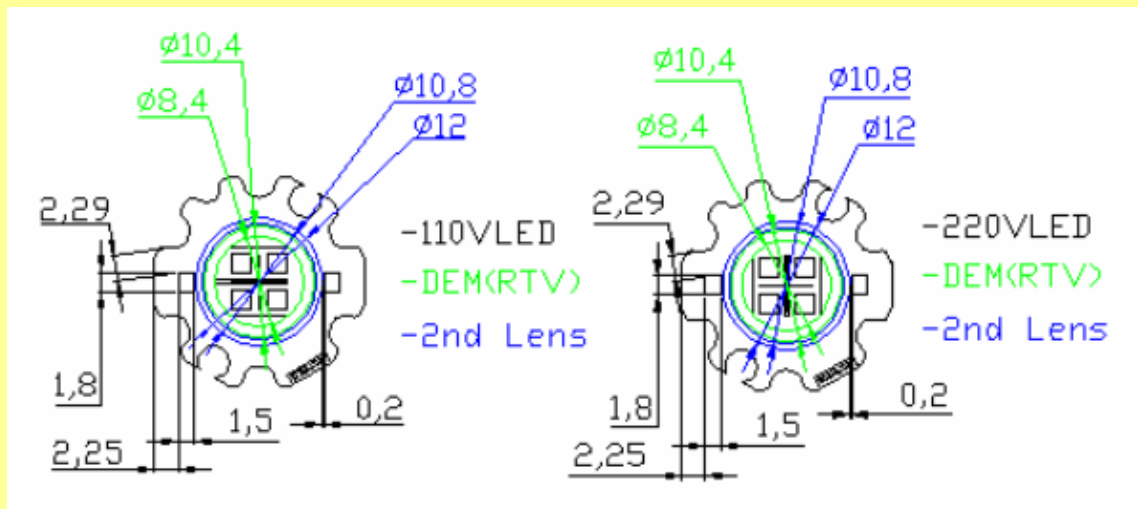
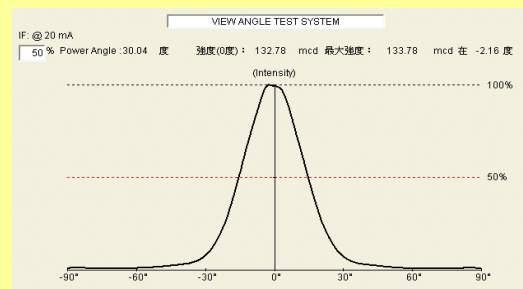
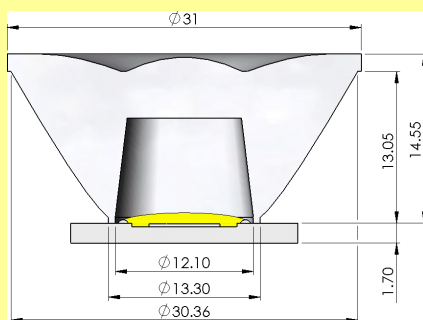


5W AC LED (Preliminary Specification)

Mechanism Spec.	
Outer Dimension	$\Phi 22 \times 1.7 \text{ mm}^3$
Active Area	$\Phi 8.4 \text{ mm}^2$
Electronic Spec.	
Input Voltage	110V, 50/60 Hz or 220V, 50/60 Hz
Power Consumption (W)	5
Power Factor (PF)	>0.88
Optical Spec.	
Luminous Flux (lm)	250
Luminaire Efficacy (lms/W)	50
Beam Angle	Lambertion 120°
Correlated Color Temperature (K)	5000~6500K
Secondary Lens	
Beam Angle	30°
Dimension	$\Phi 33 \times 14.55 \text{ mm}^3$
Thermal Spec. (Ta=25°C)	
Thermal Resistance	2°C/W
Mechanism Geometry	



Secondary Lens & Beam Intensity Profile

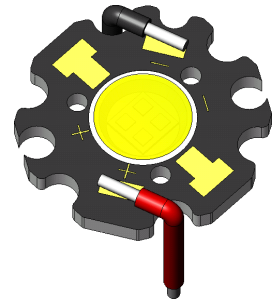


Additional Resistance for Input Voltage

Voltage Bin	Operation Conditions					
	110(RMS)	115(RMS)	120(RMS)	220(RMS)	230(RMS)	240(RMS)
	Resistance Value ± 5 % (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)
82-84	625	755	845	2490	3010	3380
84-86	565	685	800	2260	2740	3200
86-88	540	655	760	2150	2610	3025
88-90	490	595	710	1960	2370	2850
90-92	445	565	670	1780	2260	2670
92-94	385	515	625	1540	2050	2490
94-96	350	470	580	1400	1870	2315
96-98	300	425	535	1210	1690	2135

Notice

Due to good thermal conductivity and easy handling, aluminum substrate was used for the design, so when soldering the connected wire to L/N port on the board, please use carefully to avoid short circuit.



Dream Series User Guide

Introduction

To fit Global AC voltage use environment (110V or 220V....), this user guide divided into four steps to explain the proper use of LUSTROUS AC LED.

Step1. Understand the product specifications

Please confirm product voltage usage environment (110 or 220V)

Note: this is very important; product voltage usage environment will determine all of the following selection of the process.

Pay attention to VF value of Lustrous product specifications and per 2V is a range of values (86-88V, 88-90V, 90-92V, etc.) in the specification

Step2. Choose Electrical Resistance

After understanding voltage usage environment (110V or 220V) and the values of Vf of Lustrous products, please refer to our Resistor-Sheet (Table 1,) and purchase products with a matching resistor values. See table1

- After finding a match on the values on ohmmeter, make your resistor through their assembly appropriate resistance value. It is recommended that resistance rating of the selection to a value of 2W of resistance.

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Voltage Bin	Operation Conditions					
	110(RMS)	115(RMS)	120(RMS)	220(RMS)	230(RMS)	240(RMS)
	Resistance Value ± 5 % (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)	Resistance Value ± 5% (ohm)
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96-98	300	425	535	1210	1690	2135

Table1. Resistor Sheet

Step3. Suggestion of proposed fuse

The suggestion of proposed fuse is edged with version 0.5A 250V,

Step4. Confirm the process

After steps above is configured, the user is required to have the discretion to collocation the luminaries, radiator, and connect to the power.

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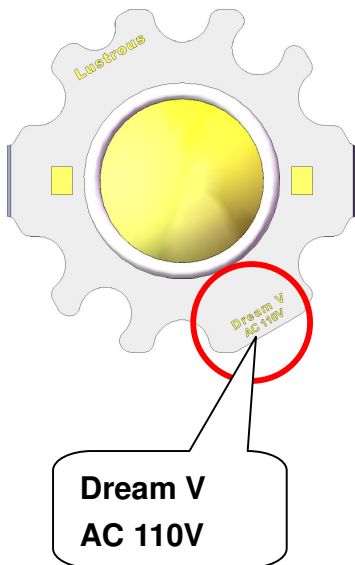
Example (AC LED Spec: 110V, Vf88)

1.
Confirm the user environment
※Can be observed by products
observing products



2.
LUSTROUS will provide the
specification of AC LED, users
will know the VF.

1



2

Operation Voltage	Voltage Bin (V)		
	110 V	86-88	88-90
92-94		94-96	96-98
220 V	86-88	88-90	90-92
	92-94	94-96	96-98

Dream Series

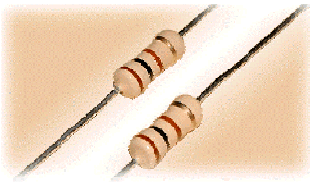
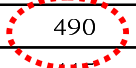
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3. Select the resistance referring the Resistor Sheet.



4. Select an appropriate fuses and link with series connection.

Voltage Bin	110(RMS)	115(RMS)
	Resistance Value ± 5 % (ohm)	Resistance Value ± 5% (ohm)
82-84	625	755
84-86	565	685
86-88	540	655
88-90	490	595
90-92	445	555
92-94	385	
94-96	350	
96-98	300	



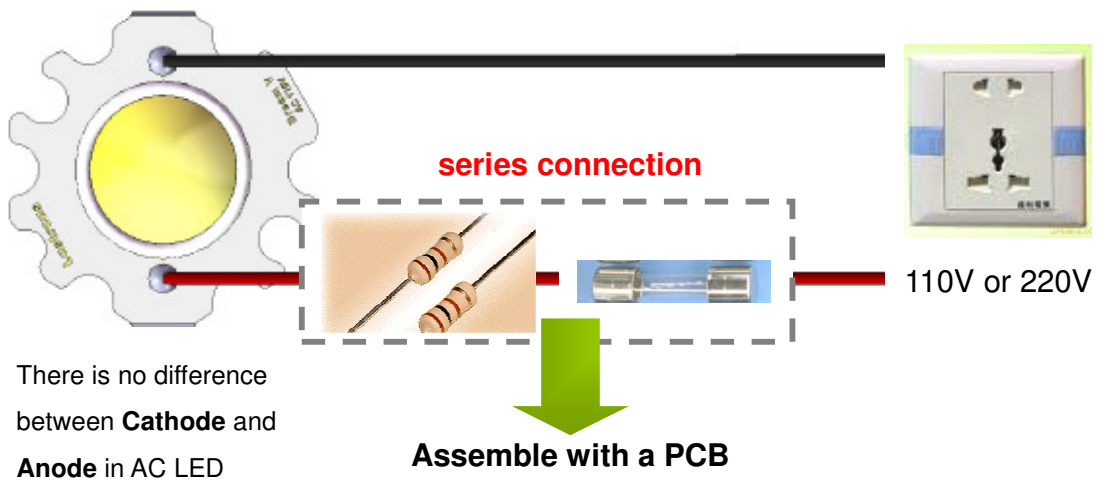
250V · 0.5A

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Drive with Resistance and Fuses.



Do NOT Drive without Resistance and Fuses.



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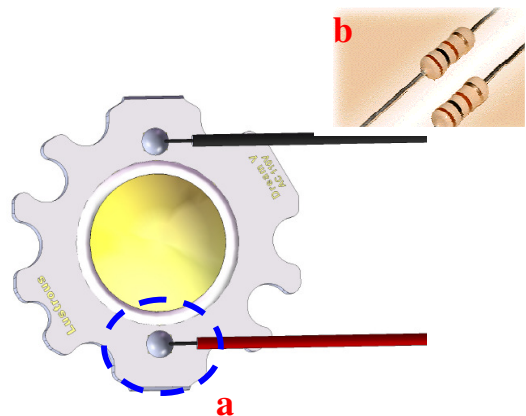
5.
Check

- Reconfirm each step.

Caution! The LED must work with appropriate thermal module.

Caution

- a. To avoid an electric shock situation, do not expose the wire while soldering.
- b. To avoid the resistance to be destroyed, the rated of resistance must more than 1W.



Dream Series
