



## SPECIFICATION

**P/N: LCT-MD1112-08L**

Preliminary

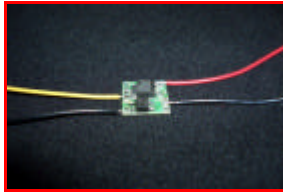
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LED CIRCLE Technology Corporation

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## Description

The **LCT-MD1112-08L** is a Talent 8 LEDs Module. It is integrated by modular LED Light-bar of 1W **Luxeon** high power LEDs and **Alva-ADL350A** CCD power supply. This product line provides simple and compact solution for traditional lighting in different size fitted into existing fixture. *Other sizes including LED PCB and CCD power supply, other LEDs, other colour pattern, other Light-bar layout and other CCD driver layout are available on request.*

## Features

- The heat is efficiently managed at preferable working temperature.
- Small/Compact size.
- Easy for being retrofitted into existing traditional lighting fixture

## Benefits

- Have flexible configurations including Warm white, White, Red, Green, Blue, Amber and RGBW mixed and other customized configuration.
- Light weight
- Enhance the value of your products
- Provides flexibility to designers

- It is a hazard free product
- It can be integrated into existing lighting system
- Facilitates new fixture design
- Facilitates low profile fixture design
- Optimisation of the usage of the system power.

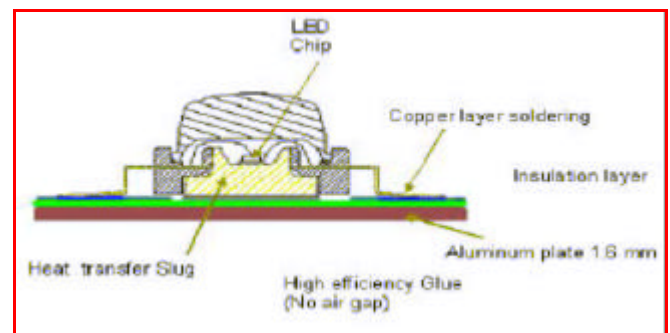
## Typical Applications

- Architectural lighting
- Garden lighting
- In-ground lighting.
- Floodlight.
- Reading lamps
- Cove lighting
- Cornice lighting
- Landscape lighting
- Under-Water lighting
- Vending machine lighting
- Wall sconces
- Under-cabinet lighting
- Projectors
- Decorative lights

## Note:

1. This MCPCB product required additional heat sink.
2. System to keep working temp at preferable temperature 55 .

## Construction of MCPCB / LED:



PS: Unique construction of Metal Core Print Circuit Board (MCPCB) with slug through contact to Aluminium substrate transferring heat from LED chip straight away and quickly to outside environments.



Selection Guide	
Part Number	Description
LCT-MD1112-08L-1WW-B	1W warm White/8 LEDs bar/Batwing
LCT-MD1112-08L-1W-B	1W White/8 LEDs bar/Batwing
LCT-MD1112-08L-1W-L	1W White/8 LEDs bar/Lambertian
LCT-MD1112-08L-1W-S	1W White/8 LEDs bar/Side emitting
LCT-MD1112-08L-1R-B	1W Red/8 LEDs bar/Batwing
LCT-MD1112-08L-1R-L	1W Red/8 LEDs bar/Lambertian
LCT-MD1112-08L-1R-S	1W Red/8 LEDs bar/Side emitting
LCT-MD1112-08L-1G-B	1W Green/8 LEDs bar/Batwing
LCT-MD1112-08L-1G-L	1W Green/8 LEDs bar/Lambertian
LCT-MD1112-08L-1G-S	1W Green/8 LEDs bar/Side emitting
LCT-MD1112-08L-1B-B	1W Blue/8 LEDs bar/Batwing
LCT-MD1112-08L-1B-L	1W Blue/8 LEDs bar/Lambertian
LCT-MD1112-08L-1B-S	1W Blue/8 LEDs bar/Side emitting
LCT-MD1112-08L-1A-B	1W Amber/8 LEDs bar/Batwing
LCT-MD1112-08L-1A-L	1W Amber/8 LEDs bar/Lambertian
LCT-MD1112-08L-1A-S	1W Amber/8 LEDs bar/Side emitting

LCT-MD1112-08L-1M-B	1W RGBW/8 LEDs bar/Batwing
LCT-MD1112-08L-1M-L	1W RGBW/8 LEDs bar/Lambertian
LCT-MD1112-08L-1M-S	1W RGBW/8 LEDs bar/Side emitting
LCT-MD1112-08L-1XXX-X	1W Customized/8 LEDs bar

Note: The XXX-X is the project code of the customized products.

Electrical characteristics		
Input		
Parameter	Min	Max
Input Voltage Range	24Vac±5%	
Input Frequency	47Hz	63Hz
Input Current	315mA	385mA
Efficiency	70%	90%

Environmental Ratings		
Parameter	Min	Max
Operating Ambient Temperature	-10	60
Storage Ambient Temperature	-20	80

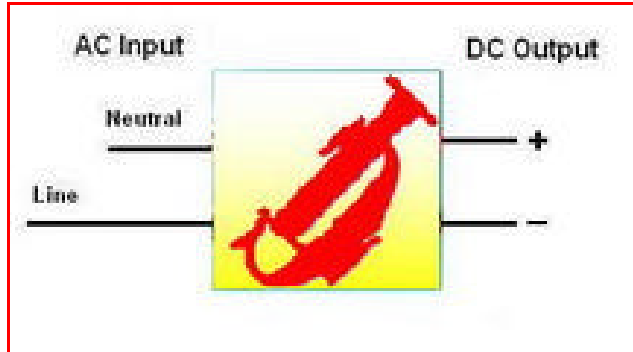
## LED Selection (per Luxeon from LUMILEDS)

Color	Radiation pattern	Dominant wavelength nm	LED Watts	Lumens / emitter
Red	Batwing/ Lambertian / Side emitting	630	1	B:27 / L:42 / S:40
Amber		594	1	B:25 / L:42 / S:38
Green		525	1	48
Blue		470	1	16
White		5500 K	1	40
Warm White	Batwing	3000 – 3500 K	1	20



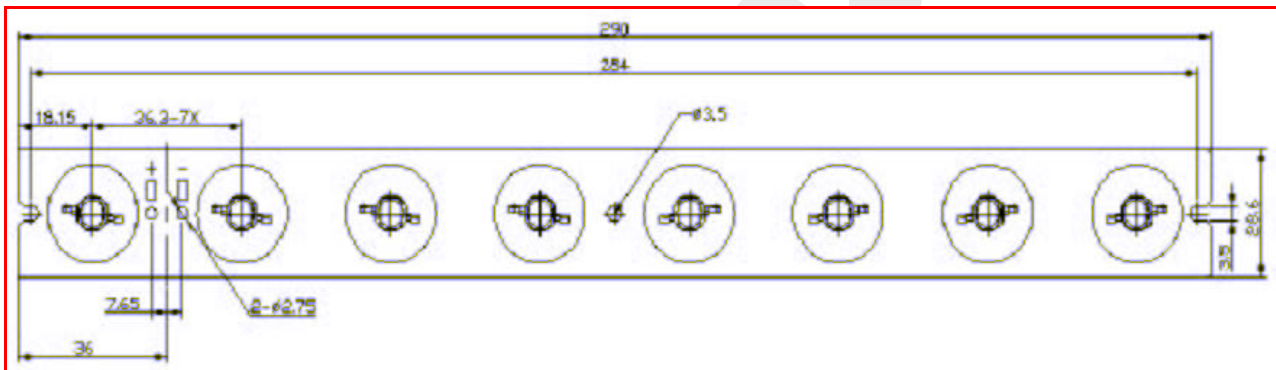
## Drawing and Diagram

### 1. Alva CCD LED Driver. (15mm\* 15mm)



Note: Other circuit layouts and size available on request

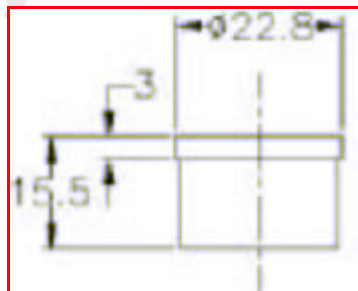
### 2. LED Module. (290mm\* 28.6mm, Plate thickness : 1.6mm)



#### Note:

1. Surface finish : Black / White Solder resist paint
2. LED on PCB Circuit : 8LEDs in series (other circuit layouts available on request)
3. Connection : 2 open soldering terminals.
4. Option : 10° / 15° / 20° / 25° / 45° Acrylic lens (click-in per each LED), Other lens subject to optional.

#### 10° / 15° / 20° / 25° / 45° Lens holder dimension



5. Recommended max. PCB temperature : + 55



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**Important:** Please contact our engineer to ensure installation and maintenance being properly executed to obtain maximum performance, efficiency and durability from the LED lighting product.

**Disclaimer:** While every care has been taken with the details on this specification sheet, we accept no responsibility for any inaccuracies and reserve the right to change these specifications without notice to always ensure that you are receiving a superior product.

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