



SPECIFICATION

P/N: LC-MD1112-08

Preliminary

光圓科技股份有限公司

LED CIRCLE Technology Corporation

新竹市竹光路 8 號 14 樓之 8

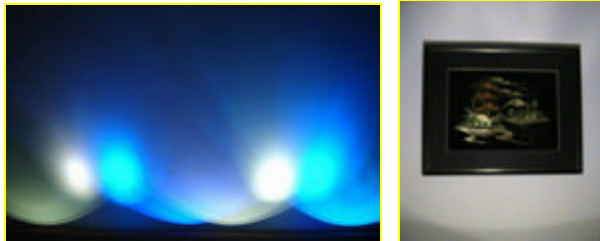
14F-8, No. 8, Zhu-Guang Rd., HsinChu City, Taiwan

WEB: www.ledcircle.com E-Mail: zeno@ledcircle.com TEL: +886-3-540-2430



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

Examples



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

Description

The **LC-MD1112-08** is an 8 LEDs Module that is modular LED Light-bar of 1W **Luxeon** high power LEDs. This product line provides simple and compact solution for traditional lighting in different size fitted into existing fixture. *Other sizes including LED PCB, other LEDs, other colour pattern, and other Light-bar 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

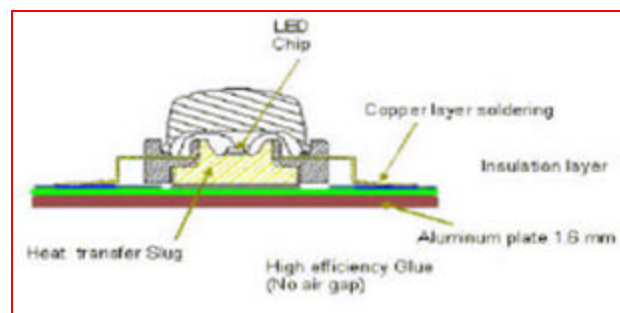
Benefits

- 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

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 CircuitBoard (MCPCB) with slug through contact to Aluminium substrate transferring heat from LED chip straight away and quickly to outside environments.



LED Circle Technology Corporation

Web: www.ledcircle.com

E-mail: zeno@ledcircle.com

Tel: +886-3-540-2430

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

LC-MD1112-08-1M-L	1W RGBW/8 LEDs bar/Lambertian
LC-MD1112-08-1M-S	1W RGBW/8 LEDs bar/Side emitting
LC-MD1112-08-1XXX-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	17.6Vdc	40.0Vdc
Input Frequency	-	-
Input Current	315mA	385mA
Efficiency	-	-

Note: The **Input Voltage range** is depended on the LEDs that you have selected. (Contact our engineer for the detail)

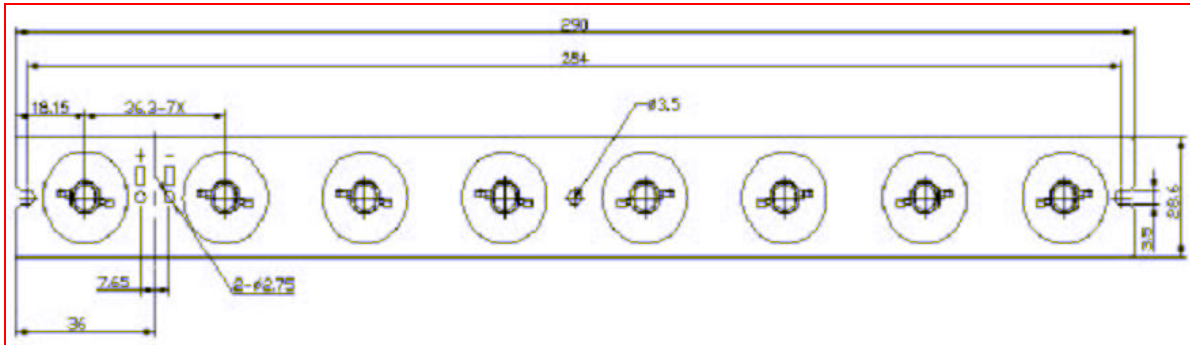
Environmental Ratings		
Parameter	Min	Max
Operating Ambient Temperature	-10	60
Storage Ambient Temperature	-20	80

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



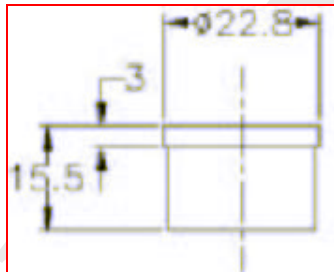
Drawing and Diagram (290mm* 28.6mm, Plate thickness : 1.6mm)



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

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.

光圓科技股份有限公司

LED CIRCLE Technology Corporation

新竹市竹光路 8 號 14 樓之 8

14F-8, No. 8, Zhu-Guang Rd., HsinChu City, Taiwan

WEB: www.ledcircle.com E-Mail: zeno@ledcircle.com TEL: +886-3-540-2430