SHINE OPTO (SUZHOU) CO., LTD

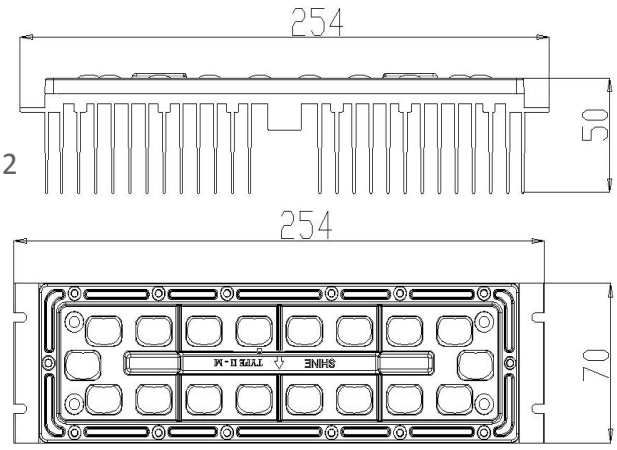
MS02 Series LED Module Specifications

The LED module is developed by the SHINE OPTO R&D engineers team, according to the requirements and development of outdoor lighting market. It has many different optical designs with SHINE OPTO's proprietary technology, optimized the structure of heat radiation, can widely lower down the Tj, with very high luminous output. It also adopts standard electric connector, which can match customers' different requirements on housing designs.,such as street lights,tunnel lights,spot/flood lights,high bay lights and etc.

Material

- 6063 aluminum alloy material by special processing, conductivity factor reached245W/(M.K)
- Aluminium PCB board's thermal conductivity 2
- Rubber cable
- 304 Stainless steel screw
- High efficiency flux lenses
- Cree or Philips led,warranty&life span>70000

Size



Main Features

- 6063 aluminum alloy material by special processing,conductivity factor reached 245W/(M.K),the Tj is less than 55℃ after heat balance.
- The lens use calculus patented technology and Shine Opto special optical material, so that the optical efficiency of the lens can reach more than 99%.
- With the unique patent technology, it can avoid causing the difference of the optical effects from the Lens installation or the influence of the outdoor environment.
- Various of beam angle design, suitable for different occasions lighting.
- IP68 water proof,can working under water over 3m.
- Adopts standard electric connector,can match different requirement on housing designs.
- The complete optical designs,can reach the lighting demand of the various optical applications.

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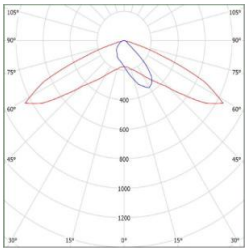
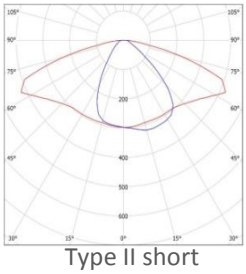
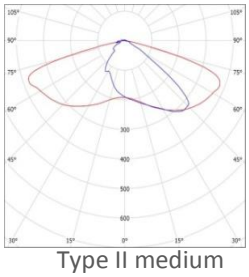
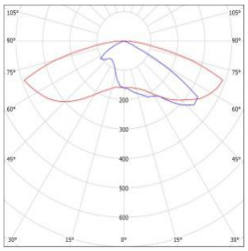
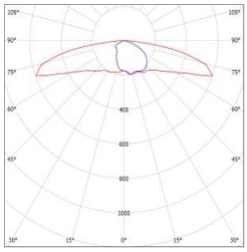
Distribution Curve

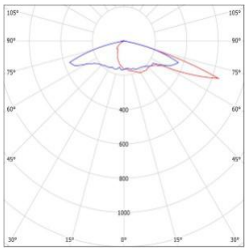

Type I short

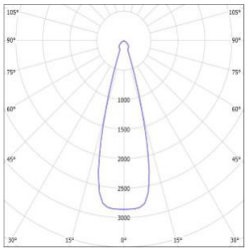

Type II short

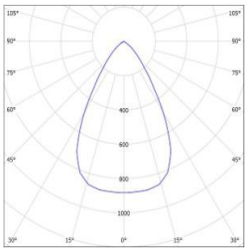

Type II medium

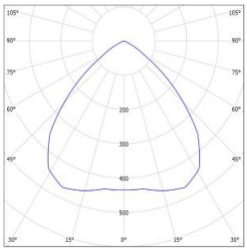

Type III medium

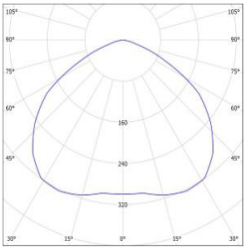

Type III long


Type IV very short


30°


60°

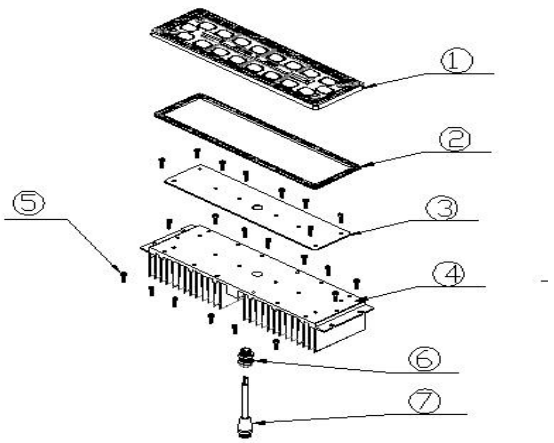

90°


120°

Technical Parameters

Item	Power	LED	QTY	CCT	Flux of module	Voltage	Current	IP	Size(mm)	NW
MS02A	20W	Philips Lumileds	18	3000K 4000K 5000K 5700K	130lm/W	57.1V	350mA	IP68	254*70*50	0.68Kg
	30W		36		135lm/W	56.6V	530mA	IP68		
	40W		36		130lm/W	56.2V	700mA	IP68		
	50W		54		135lm/W	56.2V	890mA	IP68		
	60W		54		130lm/W	57.4V	1045mA	IP68		
MS02B	20W	Cree chips	18		150lm/W	25.2V	790mA	IP68	254*70*50	0.68Kg
	30W		18		145lm/W	25.7V	1160mA	IP68		
	40W		18		140lm/W	28.6V	1400mA	IP68		
	50W		18		130lm/W	28.9V	1730mA	IP68		
	60W		18		120lm/W	27.3V	2200mA	IP68		

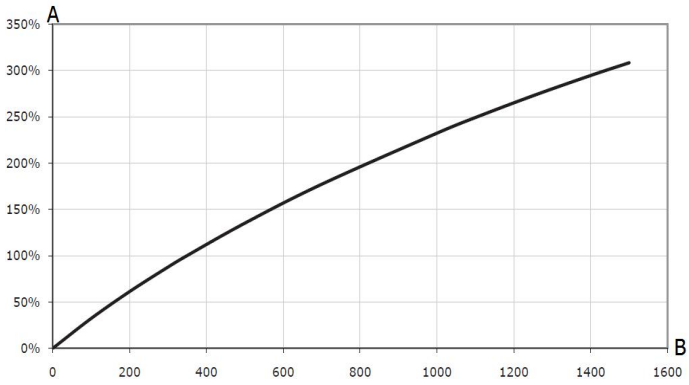
Break Up The Figure



No.	Name	QTY
1	Lenses	1
2	Silicone gasket	1
3	Aluminium PCB with led	1
4	Heatsink	1
5	Screws	22
6	Waterproof screw	1
7	DC Cable	1

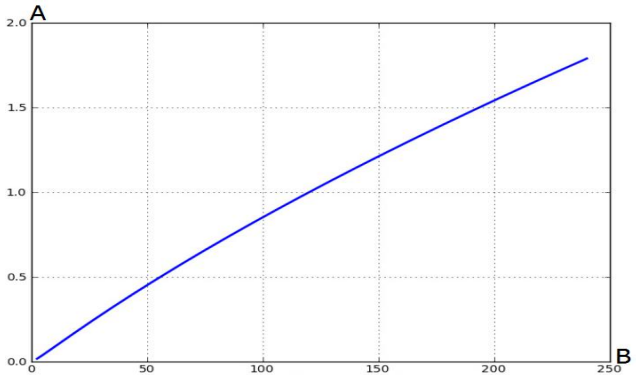
Tj Flux Current Graph

1,Based on Cree XTE series led module testing result.

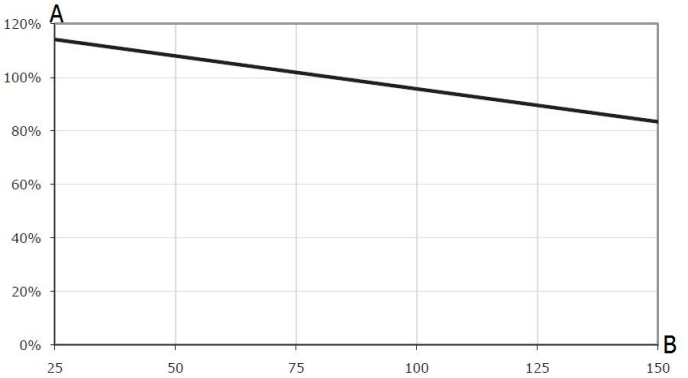


A:Relative luminous flux B:Tj = 85 °C Current

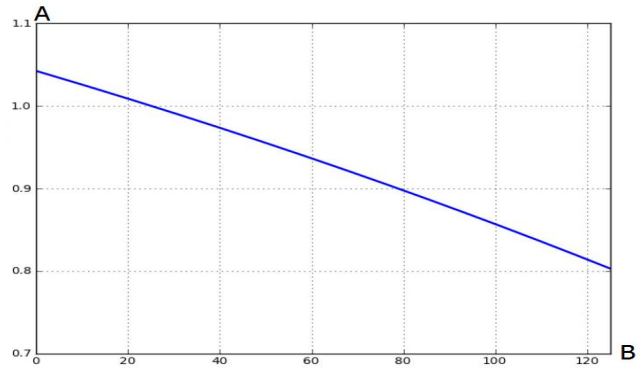
2,Based on Philips Lumileds Luxeon series led module testing result.



A:Relative luminous flux B:Tj = 85 °C Current



A:Relative luminous flux B: Current=350mA Tj



A:Relative luminous flux B: Current=120mA Tj

Note

1,The parameters for LED modules are all testing under the condition of RH 85%.

2,The tolerance of luminous flux, power and current value<±5%.

3,All the materials of module meet ROHS standard.

4,The design and parameter of this module meet UL, DLC, TUV, ENEC, VDE, CB, ERP and other demonstration requirements.

5,The design of this module used a number of SHINE patented technology, please do not fake.

6,Do not close to look at working leds directly.

7,The module warranty terms are based on the parameter working condition listed in this specifications