



## SPECIFICATION FOR APPROVAL

**Model : LFR-102/33 Shadowless Illumination –  
Red**

**Model P/N : GL-LFR10233R-24**

**Customer :**

**Date : Nov. 02, 2015**

Authorized Signature		
Approved By	Reviewed By	Prepared By
		

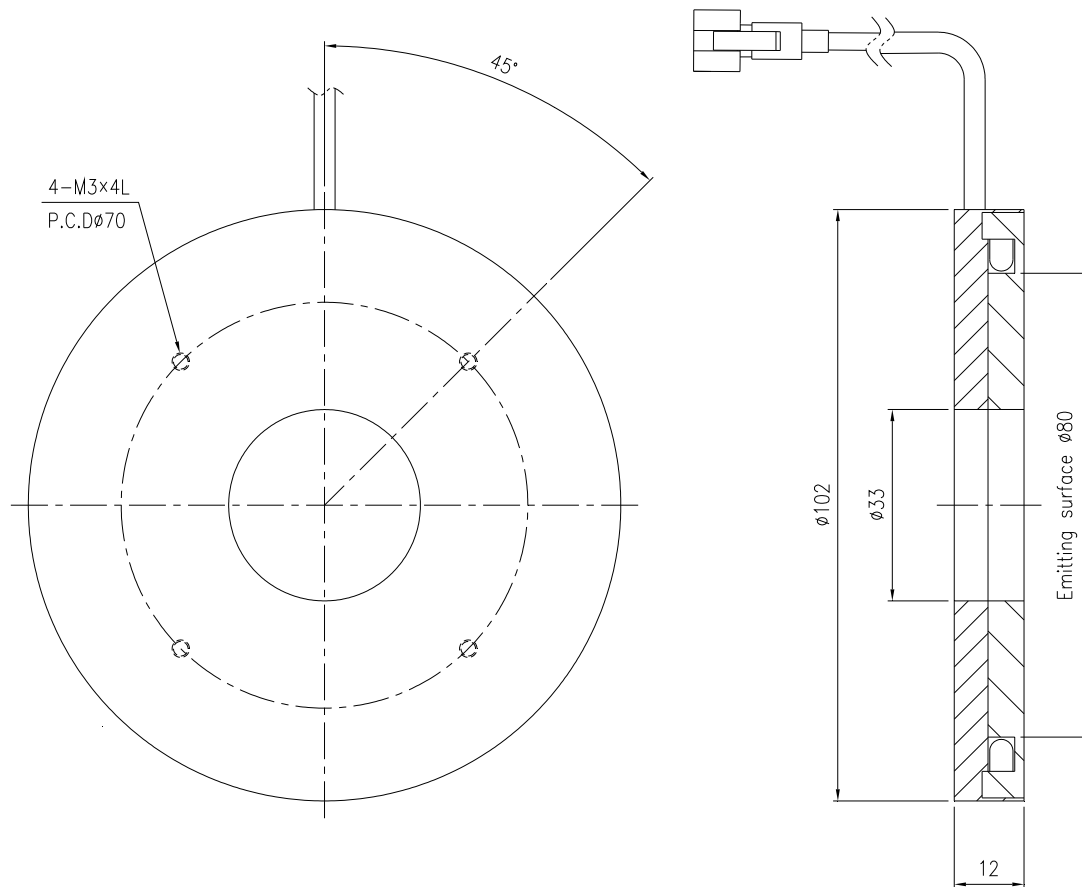
丞基技研股份有限公司 3AMechatronic Co., LTD.

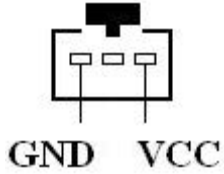
**Add.:** 7F-7, No. 12, Lane 609, Sec. 5, Chongxin Rd., Sanchong Dist.,  
New Taipei City 241, Taiwan (R.O.C)

**TEL:** +886-2-29997331

**FAX:** +886-2-22787113

# 1.Dimension



<b>Material</b>	Aluminum (Main Part)
<b>Surface Treatment</b>	Anodic Treatment (Black, Main Part)
<b>Unit</b>	mm
<b>Tolerance</b>	±0.3
<b>Connector Type</b>	J.S.T connector SM type-3Pin
<b>Connector Pin Def.</b>	

Note: Owing to the different series of lights, the length of wires is about 25 – 30cm.

## 2. Guarantee

Under the normal use of the product, it will keep more than 80% of its initial brightness within a year from the date of delivery.

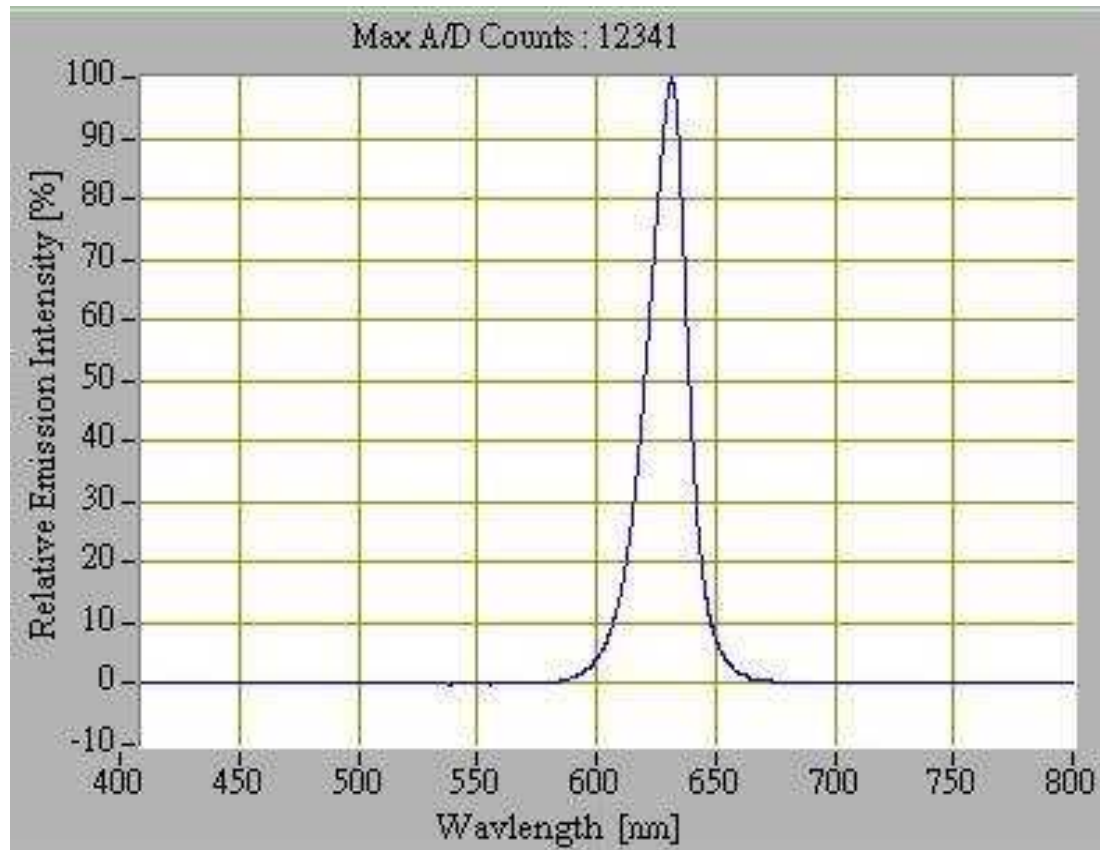
## 3. Specification

<b>Input Voltage</b>	DC 24V	Tolerance: $\pm 0.1V$
<b>Max Power Consumption</b>	2.4W	LED consumption only.
<b>Operating Condition</b>	Temperature	0 – 40°C
	Humidity	20 – 80%RH
	Cooling Method	Natural Air Cooling
<b>Quantity of LEDs</b>	60 pieces	

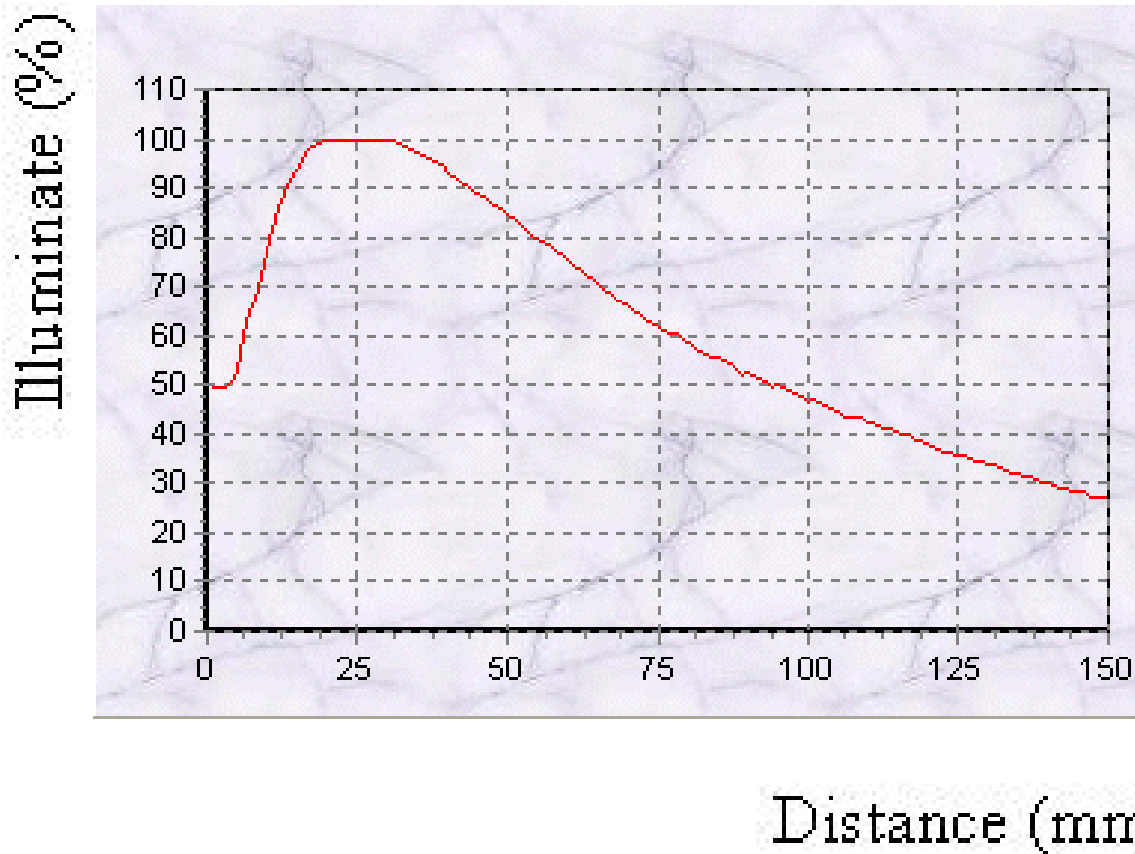
## 4. Specification of LED

**Chip Source:** NICHIA, CREE, OSRAM, SAMSUNG, or PHILIPS

**Spectrogram:**

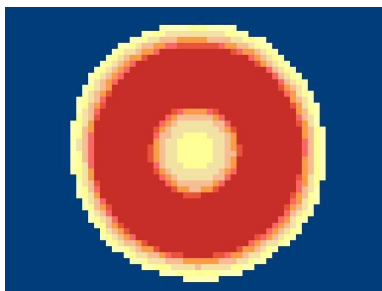


## 5. Illuminance Curve

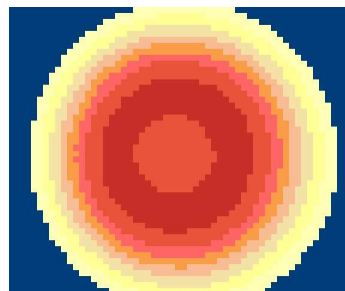


## 6. Brightness Distribution for LFR10233 Series

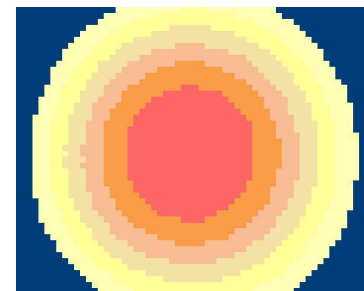
0cm



2cm



4cm



# 7.CE Certification

**SGS Taiwan Ltd.**  
**Electronics & Communication**  
**Laboratory**

134, Wu Kung Road,  
 WuKu Industrial Zone,  
 Taipei County, Taiwan 248  
 Tel: +886-2-2299-3279  
 Fax: +886-2-2298-2698



**SGS**

Verification No.: **EM/2007/70058C**

## VERIFICATION OF EMC COMPLIANCE

Model No. : 3AM-DR-90/50W; 3AM-PR-136/108-W; 3AM-DO-54/11W;  
 3AM-DM-60/60W; 3AM-LDM-60/60W; 3AM-IFV-50W

Added Model(s) : Please see the ANNEX(—)

Product Name : LED LIGHT

Applicant : 3A MECHATRONIC CO., LTD.

Address of Applicant : 7FL.-7, NO.12, LANE 609, SEC.5, CHUNGSHIN RD., SANGHUNG CITY,  
 TAIPEI, TAIWAN 241, R.O.C.

Based on SGS EMC Test Report Number(s) : EM/2007/70058

Date of Receipt : 17 July 2007  
 Date of Test(s) : 17 July ~ 21 August 2007  
 Date of Issue : 21 August 2007  
 Test(s) Required :

### Standards:

EN55015 : 2000+A1:2001+A2:2002	
EN61547 : 1995+A1:2000	
IEC61000-4-2 : 1995+A1:1998+A2:2000	IEC61000-4-3 : 2002+A1:2002
IEC61000-4-8 : 1993+A1:2000	

### Conclusion

The apparatus meets the requirements of the above standards and hence fulfills the requirements of EMC Directive 2004/108/EC requirements.

\*This certificate is only valid for the equipment and configuration described, and in conjunction with the test report as detailed above.

Authorized Signatory:



*Victor Wen*  
 SGS TAIWAN LTD.  
 Victor Wen

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SGSPAPER

04249853



# All of our LED lights have obtained CE certification.

## 8. RoHS Certification



8, Lane 29, Wen-Ming Rd., Lo-Shan Tsun  
Kui-Shan, Taoyuan County, Taiwan 33383  
<http://www.etc.org.tw>  
03-328-0026

# Certificate

of Conformity for Directive 2002/95/EC (RoHS)

This is to certify enclosure(s) are in compliance with Directive 2002/95/EC on the Restriction of The Use of Certain Hazardous Substance (RoHS) in Electrical and Electronic Equipment.

**Applicant: 3A Mechatronic Co., Ltd.**

7F-7, No. 12, Lane 609, Chung-Hsin Rd., Sec.  
5, San-Chung City, Taipei Hsien, Taiwan

**Product/Sample: Shadowless Type LED**

**Style/Type: PR-67/39R 、 PR-67/39W 、 PR-67/39B 、 PR-67/39G 、  
PR-67/39Y 、 PR-67/39UV 、 PR-67/39IR 、 PR-90/58R 、  
PR-90/58W 、 PR-90/58B 、 PR-90/58G 、 PR-90/58Y 、  
PR-90/58UV 、 PR-90/58IR 、 PR-136/108R 、 PR-136/108W 、  
PR-136/108B 、 PR-136/108G 、 PR-136/108Y 、  
PR-136/108UV 、 PR-136/108IR**

**Certificate No: 08-09-QAC-186**

**Date of Issue: October 17, 2008**

This certificate of conformity is based on evaluated sample(s) of the product mentioned above. It does not imply the assessment of production of the product. The result of this evaluation is available on the RoHS Assessment Report, which is in conformity with 2005/618/EC Article 1, amending RoHS Directive 2002/95/EC.

**Peter Huang**  
**Manager**  
**Electronics Testing Center, Taiwan**

To pursue excellence in service quality with a dedicated working attitude.

**All of our LED lights have obtained RoHS certification.**