SignComplex

www.signcomplex.com

M-Spot™ series

Features

- Can replace the conventional spotlights,soft light
- The power is 6.5W, equivalent to a 50-60W conventional spotlight
- Low heat, No UV,No IR.
- Life Span: 40,000 hours
- Material:Aluminium(shell)+PC(Top)
- Working Voltage: AC100-240V/50-60Hz;AC/DC12V
- Base: GU10/E26/E27/B22/GU5.3
- Certification: CE,UL,RoHS

M-Spot™ is an exceptionally high performance LED lamp built to last. It is a premium quality solid state lighting product precisely engineered and manufactured with state of the art technologies and materials.

Proprietary driving circuit enables M-Spot™ to replace traditional incandescent / halogen lamp, up to 60 watt, directly without additional modification or transformer.

Application

Widely used in the hotel, meeting room, offices, hospital, schools, factories, commercial lighting, shopping malls, supermarkets,kitchen,diaplay,backlight, home indoor lighting and so on.

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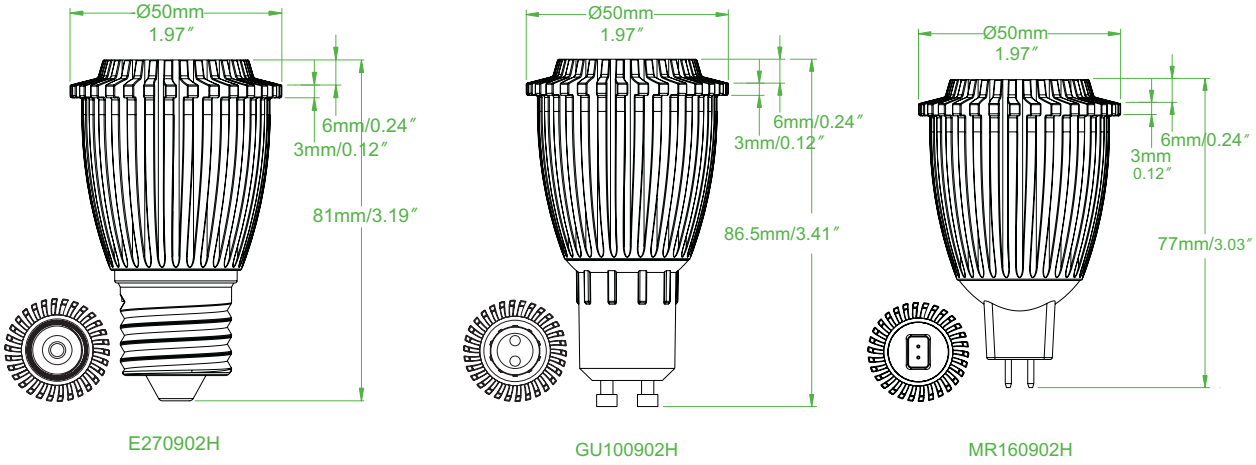
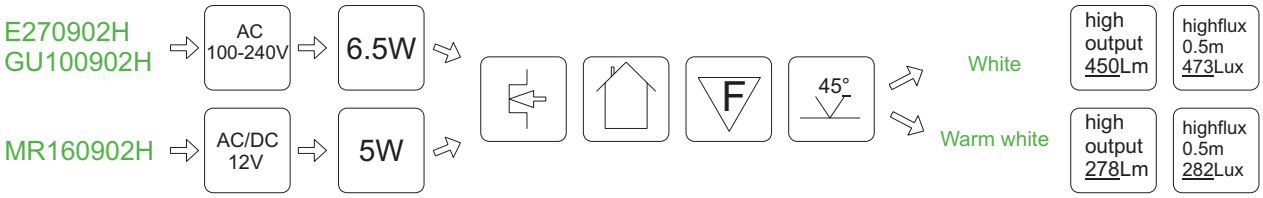
Yijia Industrial Park, Fuqian Road, Guanlan Town, Baoan, Shenzhen, Guangdong, China

Dimensions



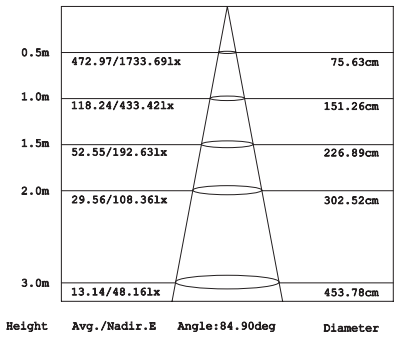
E270902H GU100902H MR160902H

Specifications

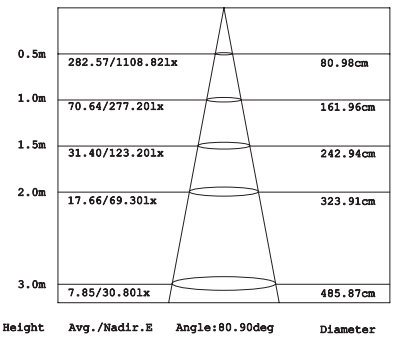


Model Number	Shell Color	Color	LED Type	CCT	Power Consumption (W)	CRI	Lumen (lm)	Voltage (V)	Beam Angle (degrees)	Weight (kg)
E270902H-W	Silve	White	BridgeLux	5000-7000K	6.5	75	450	100-240V AC 50/60Hz	45°	0.095
E270902H-WW		Warm White		2700-3500K	6.5	80	278			
E270902H-NW		Natural White		4000-5000K	6.5	77	427			
GU100902H-W	Silve	White		5000-7000K	6.5	75	450	100-240V AC 50/60Hz	45°	
GU100902H-WW		Warm White		2700-3500K	6.5	80	278			
GU100902H-NW		Natural White		4000-5000K	6.5	77	427			
MR160902H-W	Silve	White		5000-7000K	5	75	450	12V AC/DC	45°	
MR160902H-WW		Warm White		2700-3500K	5	80	278			
MR160902H-NW		Natural White		4000-5000K	5	77	427			

Average Illuminance Figure



White



Warm white

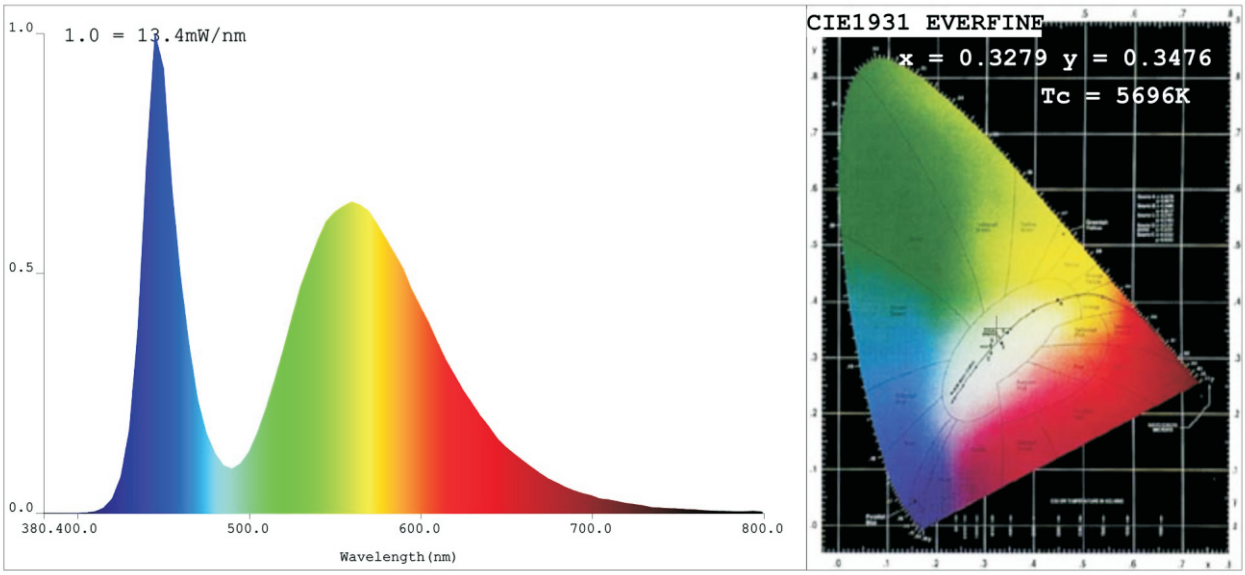
Absolute Maximum Rating

Parameter	Rating	Units
Aluminum Heat sink Temperature	78	° C
Operating Temperature	-20~+40	° C
Storage Temperature	-40~+80	° C
Equilibrium Temperature	31	° C

White (E270902H / GU100902H)

Spectrophotocolorimeter Test Report

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate:x=0.3279 y=0.3476/u'=0.2013 v'=0.4802 (duv=5.35e-003)
CCT:Tc= 5696K Prcp WaveL: λd=530.0nm Purity=3.0%
Peak WaveL: λp=445nm Half Width: $\Delta\lambda$=23.0nm Ratio:R=11.2% G=85.6% B=3.2%
Average Wave: 549nm CLASS: F_6300K
Rendering Index:Ra=61.2

Photo Parameters:

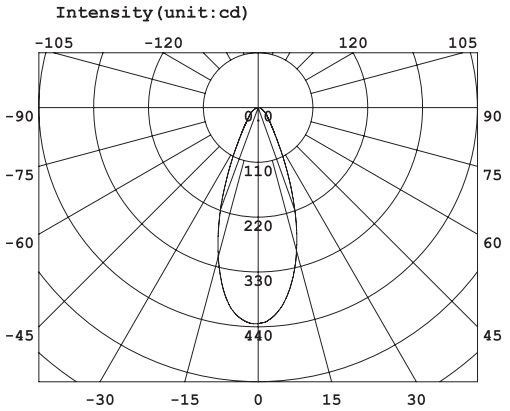
Flux: Φ=450.28(lm) Luminous Efficacy: 57.65(lm/W) Luminous Power:P=1.288(W)

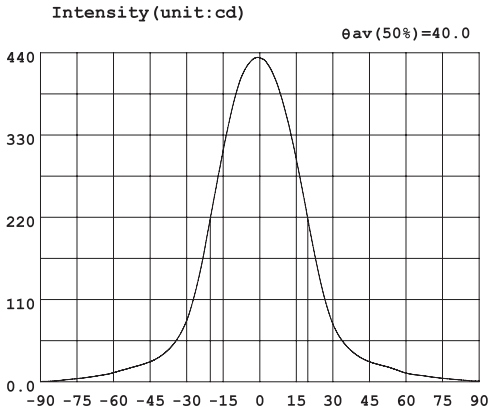
Electrical Parameters:

U=217.3V I=0.0512A P=6.906W PF=0.702

Instrument Status:
Scan Range:380.0nm-800.0nm Interval:5.0nm Ip = 42350(G=5,D=54)
REF = 15005 TMP(PMT) = 27.9(deg.celsius) Test Mode: Fast Test

GONIOPHOTOMETER Test Report

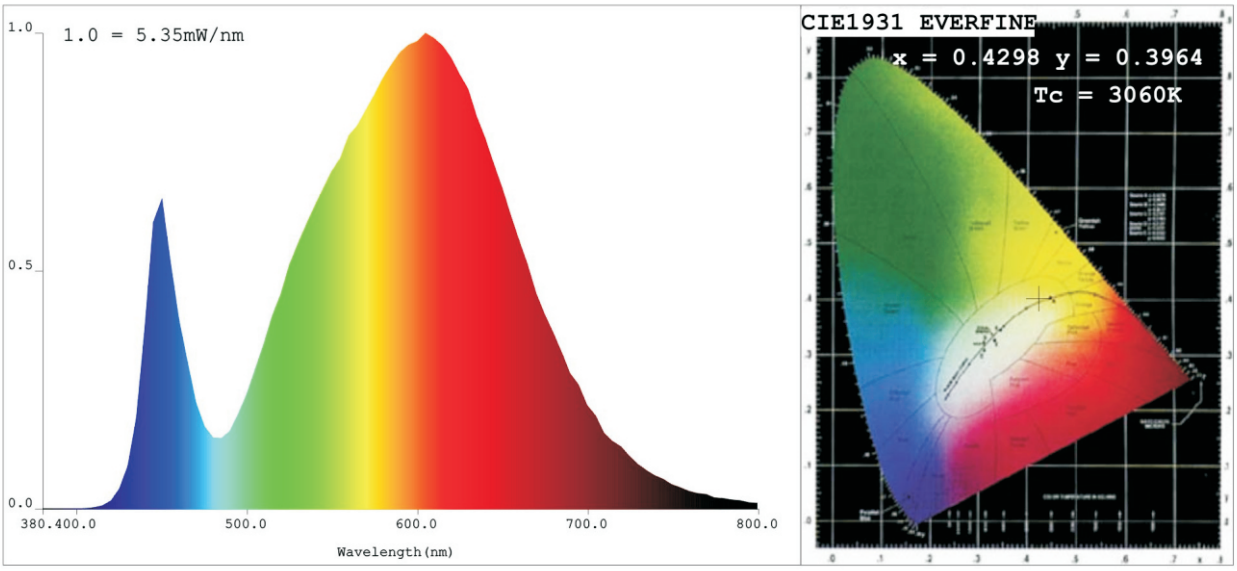




Warm White (E270902H / GU100902H)

Spectrophotocolorimeter Test Report

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate:x=0.4298 y=0.3964/u'=0.2493 v'=0.5173 (duv=-2.09e-003)
CCT:Tc= 3060K Prcp WaveL: λ_d=583.4nm Purity=48.0%
Peak WaveL: λ_p=605nm Half Width: $\Delta\lambda$=142.1nm Ratio:R=22.4% G=75.5% B=2.2%
Average Wave: 591nm CLASS: OUT
Rendering Index:Ra=80.7

Photo Parameters:

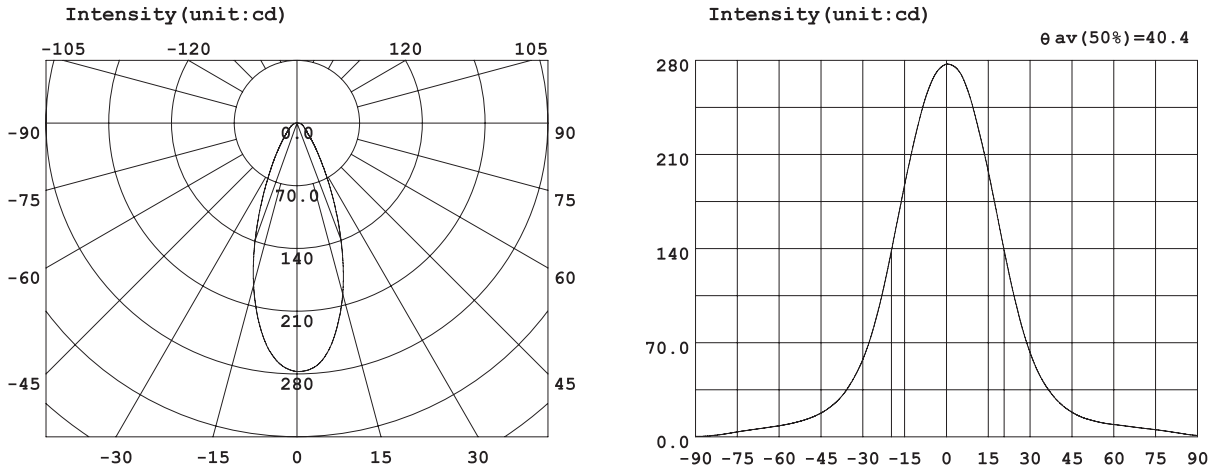
Flux: Φ=276.89(lm) Luminous Efficacy: 35.76(lm/W) Luminous Power:P=872.6(mW)

Electrical Parameters:

U=217.4V I=0.0509A P=7.014W PF=0.699

Instrument Status:
Scan Range:380.0nm-800.0nm Interval:5.0nm Ip = 47639(G=6,D=69)
REF = 9254 TMP(PMT) = 25.7(deg.celsius) Test Mode: Fast Test

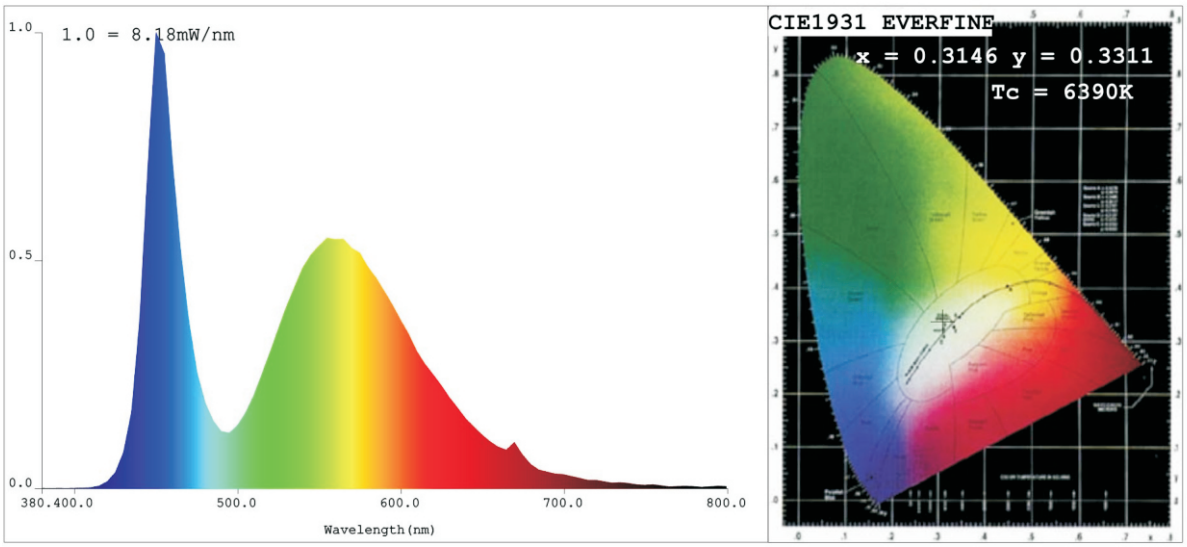
GONIOPHOTOMETER Test Report



White (MR160902H)

Spectrophotocolorimeter Test Report

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate:x=0.3146 y=0.3311/u=0.1983 v=0.3131 (duv=3.35e-003)
CCT:Tc= 6390K Prcp WaveL: λ=490.2nm Purity=6.5%
Peak WaveL: λ_p=450nm Half Width: $\Delta\lambda$=23.9nm Ratio:R=11.1% G=84.4% B=4.6%
Average Wave: 544nm CLASS: E_6700K
Rendering Index:Ra=66.7

Photo Parameters:

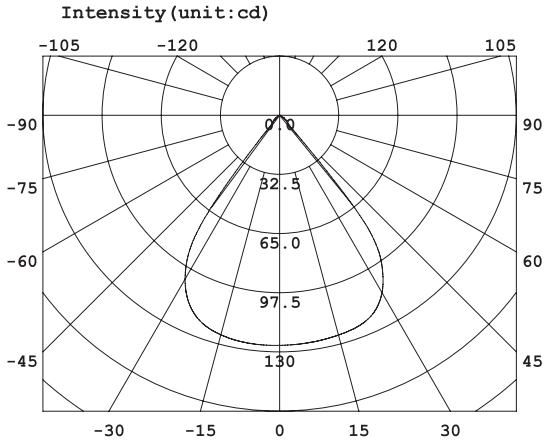
Flux: Φ=449.64(lm) Luminous Efficacy: 90.13(lm/W) Luminous Power:P=713.1(mW)

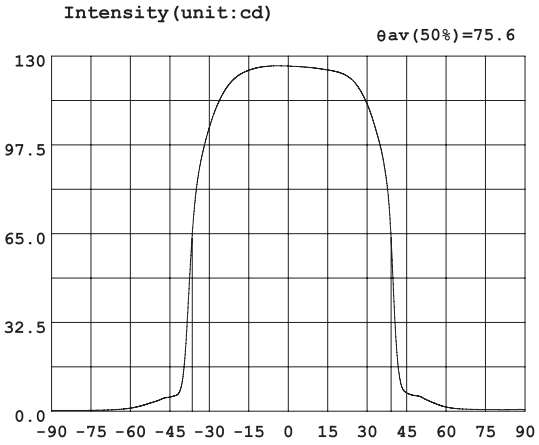
Electrical Parameters:

U=11.99V I=0.3692A P=4.462W PF=1.000

Instrument Status:
Scan Range:380.0nm-800.0nm Interval:5.0nm Ip = 29164(G=5,D=61)
REF = 10143 TMP(PMT) = 29.3degrees centigrade Test Mode: Fast Test

GONIOPHOTOMETER Test Report

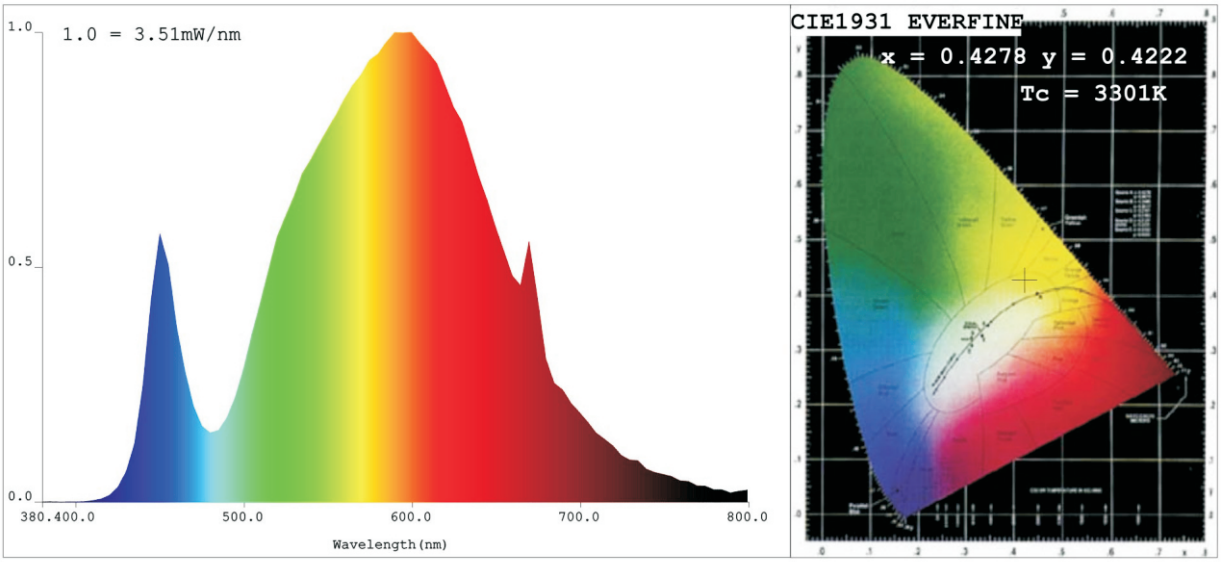




Warm White (MR160902H)

Spectrophotocolorimeter Test Report

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate:x=0.4278 y=0.4222/u=0.2373 v=0.3513 (duv=8.63e-003)

CCT:Tc= 3301K Prcp WaveL: λd=578.8nm Purity=55.2%

Peak WaveL: λp=600nm Half Width: $\Delta\lambda$=142.9nm Ratio:R=19.9% G=78.1% B=2.0%

Average Wave: 587nm CLASS: OUT

Rendering Index:Ra=77.1

Photo Parameters:

Flux: Φ=277.63(lm) Luminous Efficacy: 61.36 (lm/W) Luminous Power:P=572.7(mW)

Electrical Parameters:

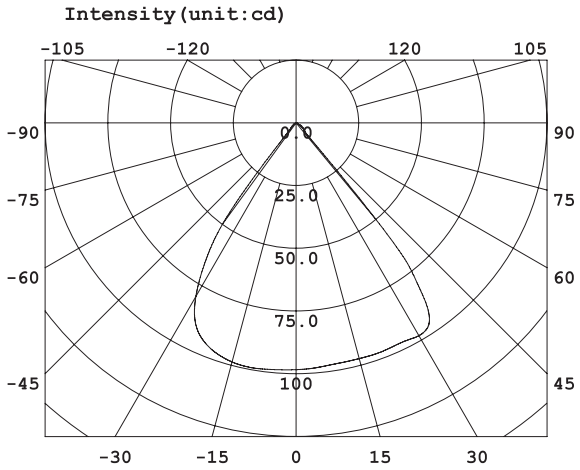
U=11.99V I=0.3722A P=4.455W PF=1.000

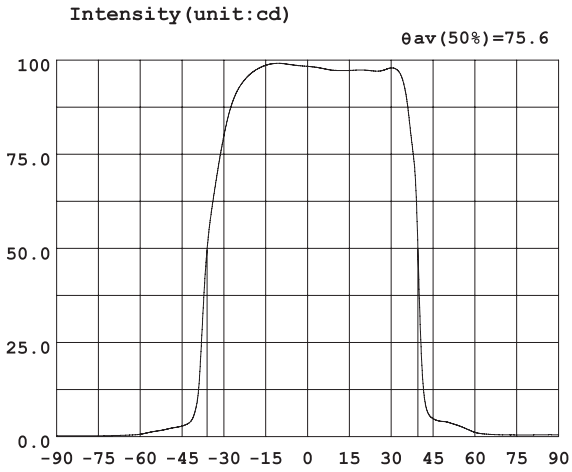
Instrument Status:

Scan Range:380.0nm-800.0nm Interval:5.0nm Ip = 29418(G=6,D=96)

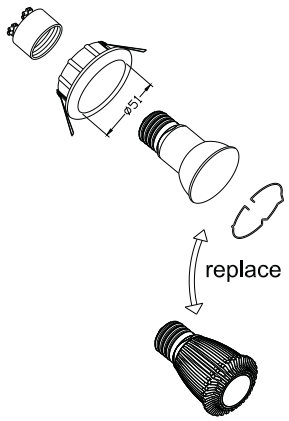
REF = 8288 TMP(PMT) = 30.4degrees centigrade Test Mode: Fast Test

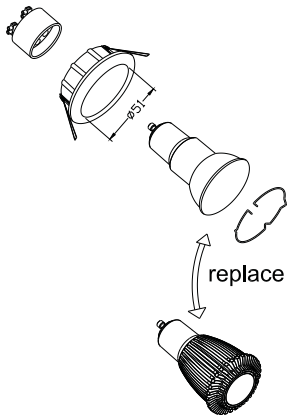
GONIOPHOTOMETER Test Report

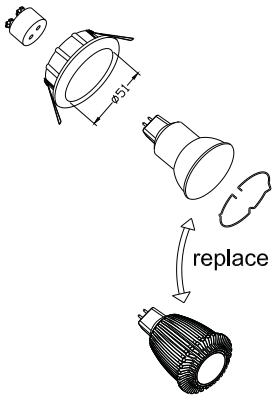




Installation







⚠ The product is strictly prohibited to be used in these conditions:

- For fixfures and circuits with dimming functions:(neither with 100% full brighness)
- For fixtures with internal control circuits (not including those which are officially allowed)
- For conventional direction lamp or exit lights
- For mercury vapor lamps, sodium lamps or HID lamps
- For airtight or mechanically sealed fixtures

⚠ CAUTIONS

- Don't install it around a humid environment or place which has water drops.
- Don't drop, scratch or squeeze the bulb.
- Don't take apart the product or replace mechanical and electronic components.
- Care needs to be taken that the light fixture with the bulb is a safe distance from paper, fabric or other inflammables.
- Tighten the bulb base into socket in case to prevent falling out.
- Don't touch the bulb body with fingers after it works for some time as the body temperature is quite warm.
- Do not stare at the strong light for a long time as it may cause injury to eyes.

Attention

The increased weight may reduce the mechancial stability of certain luminaires.

Signcomplex Limited Warranty

Signcomplex warrants this product (“Product”) against defects in material or workmanship for a period of three years from the date of purchase. If this Product is determined to be defective, Signcomplex will repair or replace the Product,at its option.This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of , or to any part of the Product. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply , or attempted repair by anyone than a facility authorized by Signcomplex to service the Product.

Repair or replacement as provided under this warranty is the exclusive remedy of the customer. Signcomplex shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on this Product except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose on this Product is limited in duration to the duration of this limited warranty.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Only Signcomplex may change, amend or modify the terms of this Limited Warranty and any such change , amendment or modification shall be in writing and is sued by Signcomplex . To obtain warranty service and shipping information call +86 755 2760 8650 or e-mail info@signcomplex .com .You must provide proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the Product is within the warranty period to obtain warranty service. Consumers have legal rights under applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties provision outlined in this document.