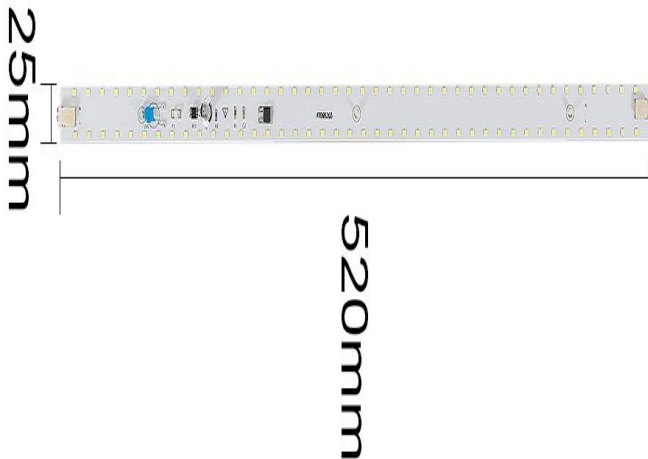
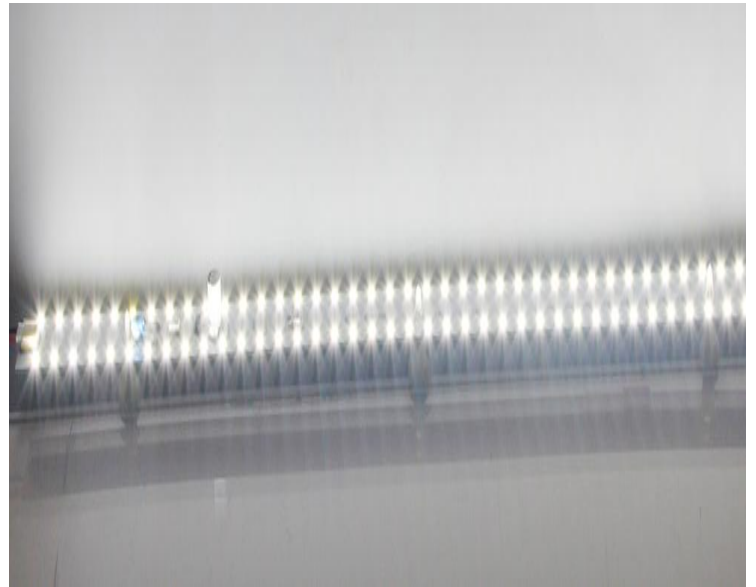


## Specification of EF09520 LED light board module

-----9W/ white light



9W LED module entity diagram



9W LED module lighting diagram



down light spot light par lamp bulb

### □ Introduction

- ✧ Isourecled production series modules do not need to be connected to an external drive, so it can help reduce the cost of the circuit and the size of the lamp. The large bead coverage of the lamp bead ensures that the illumination is absolutely uniform, no flash screen, and the lighting effect is very good.
- ✧ The products are all international standards, we pay attention to quality, good products, good quality, good brand, and users can rest assured.

## □ Product features

- ✧ linear constant-current IC control, photoelectric integration, stable performance, reliable, long life.
- ✧ Three-stage integrated circuit design, the power change rate is within  $\pm 5\%$  when the input voltage fluctuates between 220-240vac; Constant power over voltage current protection function.
- ✧ Overtemperature protection function, IC will automatically reduce the output current to control the temperature rise of the substrate, when the substrate temperature is too high.
- ✧ Using PCT2835 patch LED bead, color rendering index is more than 80.
- ✧ There is no EMI, through the CCC, CE, EMC, LVD, SAA, UL, FCC, ROHS certification, etc.
- ✧ No ultraviolet, electromagnetic wave radiation.
- ✧ PCB size can be customized according to customer requirements.
- ✧ No need to drive, wiring can be, 3 years replacement, full light, no flash screen.

## □ Scope of application

Ceiling lights, panel lights, ceiling lights, mining lights, street lights, LED down lights, fluorescent lights flood lights, etc.



## □ Product technical parameters

Type	EF09520-1	luminous	955 lm
Input Voltage	AC220-240V 50HZ	luminous efficiency	103.5 lm/w
Input Current	0.062A	CCT	5000-6500K
Power	9W	Ra	84.1
Power Factor	0.596	Size	Round 520*25*1.2mm
Insulation Class	ACW>2KV	Weight	51 g
Operating temperture	-20~45°C	Thermal Conductivity	1.0W/m.K

## □ installation guide

1. Clean the installation surface, evenly apply the heat-conducting silicone grease to the bottom of the LED module, and fix the LED module and radiator with screws.
2. Attach the lens and screw it in place.
3. Ac 220V power supply is introduced for power test.

## □ Use advice

- 1) This product has over temperature protection function, when the whole lamp temperature is too high, IC will automatically reduce the power to control the temperature rise, it is suggested to choose qualified high quality radiator. When the ambient temperature is 25°C, the Tc temperature at the temperature measurement point on the substrate surface should be <60°C. When the ambient temperature is 50°C, Tc<85°C.
- 2) Industrial and mining lamps, throwing light lamps, street lamps and other high-power projection lamps light efficiency to the distribution photometer shall prevail; Bulb lamp, lamp tube and other light efficiency to integral ball shall prevail.
- 3) It is recommended to use an insulating gasket at the bottom of the screw.

## □ Certificate

**sit**

### Certificate of Compliance

CERTIFICATE NO.: SIT130606205L

Product : 2W LED Bulb  
 Model : DS-2527, DS-2538  
 Trade Name : N.A.  
 Applicant : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.  
 Manufacturer : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.

This is to certify that, on the basis of the tests undertaken as per Report No.: SIT130606205LR, the submitted sample of the above item complies with:

EN 60968:1990+A1:1993+A2:1999  
 EN 62471:2008  
 EN 62031:2008

And fulfills testing requirement of the LVD directive 2006/95/EC.

**CE**

Authorized Signer:   
 Date: 

Shenzhen SIT Testing Technology Co., Ltd  
 Tel: (86)-0755-29173399 Fax: (86)-0755-29179933 Http://www.sit-cert.com

**sit**

### Certificate of Compliance

CERTIFICATE NO.: SIT130606205RR

Product : 2W LED Bulb  
 Model : DS-2527, DS-2538  
 Trade Name : N.A.  
 Applicant : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.  
 Manufacturer : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.

This is to certify that, on the basis of the tests undertaken as per Report No.: SIT130606205RR, the submitted sample of the above item complies with:

EPA 3050B:1996, EN1122:2001,  
 EPA 3052:1996, EPA 3060A,  
 EPA 7196, EPA 3540C, EPA 8270C

And fulfills testing requirement of the RoHS directive 2011/65/EU.

**RoHS**

Authorized Signer:   
 Date: 

Shenzhen SIT Testing Technology Co., Ltd  
 Tel: (86)-0755-29173399 Fax: (86)-0755-29179933 Http://www.sit-cert.com

**sit**

### Certificate of Compliance

CERTIFICATE NO.: SIT130606205E

Product : 2W LED Bulb  
 Model : DS-2527, DS-2538  
 Trade Name : N.A.  
 Applicant : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.  
 Manufacturer : iSource Engineering Co., Ltd  
 Address : 5th Building, the 5th Industrial Zone, Heshuikou Village, Gongming Street Office, Guangming New District, Shenzhen City, P.R.C.

This is to certify that, on the basis of the tests undertaken as per Report No.: SIT130606205ER, the submitted sample of the above item complies with:

EN 55015:2006+ A1:2007 +A2:2009  
 EN 62493:2010  
 EN 61547:2009  
 EN 61000-3-2:2006+A1:2009 +A2:2009  
 EN 61000-3-3:2008

And fulfills testing requirement of the EMC directive 2004/108/EC.

**CE**

Authorized Signer:   
 Date: 

Shenzhen SIT Testing Technology Co., Ltd  
 Tel: (86)-0755-29173399 Fax: (86)-0755-29179933 Http://www.sit-cert.com

**LCTECH**

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**Test report of**  
**IES LM-79-08**  
**Approved Method: Electrical and Photometric**  
**Measurements of Solid-State Lighting Products**

Rendered to:  
**Shenzhen iSource Engineering Co., Ltd**  
 Floor 4-5, SA building 5th industry area, Heshuikou Village, Gongming Town, Shenzhen, China

For products:  
**Two-Foot Linear Replacement Lamps**

Models:  
**DS-0901-UQ-9W-54(4000K)**

Test date: Mar 18, 2014  
 Test laboratory: LCTECH (Zhongshan) Testing Service Co. Ltd  
 2/F, Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China  
 Laboratory note: This report was based on report LCGP14030158, there is no variation except for applicant and model number.

Compiled by: *Tim Tan* Reviewed by: *Richard Li*  
 Project Engineer Technical Manager  
 April 30, 2014 April 30, 2014

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