



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX CQM 12.0045X** issue No.: **0** Certificate history: \_\_\_\_\_

Status: **Current**

Date of Issue: **2012-11-28** Page 1 of 3

Applicant: **Warom Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District, Shanghai, China  
Postal code: 201 808  
China

Electrical Apparatus: **Explosion-proof light fittings BnD81-150**  
Optional accessory:

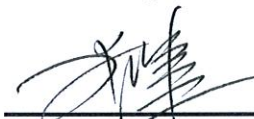
Type of Protection: **Type of protection "n", Protection by enclosure "t"**

Marking: **Ex nR IIC T4/T3 Gc/Ex t IIIC T130°C/T190°C Db IP65**

Approved for issue on behalf of the IECEx Certification Body: **Zhang Wei**

Position: **General Manager**

Signature:  
(for printed version)

  
\_\_\_\_\_  
2012-11-29

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

**China Quality Mark Certification Group Co., Ltd.**  
No. 33 Zengguang Road, Haidian District,  
Beijing City, Postal code: 100037  
China





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Manufacturer:

**Warom Technology Incorporated Company**  
No. 555, Baoqian Road, Jiading District, Shanghai, China  
Postal code: 201 808  
China

Additional Manufacturing location  
(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-15 : 2010** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition: 4

**IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'  
Edition: 1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

CN/CQM/ExTR12.0052/00

Quality Assessment Report:

CN/CQM/QAR07.0003/03



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### Schedule

**EQUIPMENT:**

*Equipment and systems covered by this certificate are as follows:*

**Description of equipment**

BnD81-150 explosion-proof light fittings are type "nR". It composed of enclosure, cover and glass cover. The enclosure and cover are made of aluminium alloy. The material of light transmitting part is glass. A E26/E27 lamp holder, a ballast, a trigger, a capacitor and a connection board are installed in the enclosure. The entry hole is blocked by a plug.

**Rating**

There are two type of this lamp: European standard and American standard. Different series has the different temperature classification.

Voltage, lamp power and temperature classification see table.

	Rated power	Rated voltage	Temperature classification			
			-60°C ≤ Ta ≤ +40°C		-60°C ≤ Ta ≤ +55°C	
			Gas	Dust	Gas	Dust
European Standard	HIE 70W,100W	220V~250V AC,50/60Hz	T4	T130°C	T4	T130°C
	HIE 150W	220V~230V AC,50/60Hz				
		240V~250V AC,50/60Hz				
	HME 80W	220V~240V AC,250V AC,50/60Hz				
	HME 125W					
HSE 70W,100W						
American Standard	HIE 70W,100W,150W	120V,208V,240V,277V,480V AC,50/60Hz	T4	T130°C	T4	T130°C
	HSE 70W,100W					

HIE: Metal halide lamp; HSE: High prossure sodium lamp; HME: High pressure mercury lamp

**CONDITIONS OF CERTIFICATION: YES as shown below:**

- 1.This BnD81-150 is not equipped with a test port that is used for routine test requirements for restricted- breathing enclosure.
- 2.When user connecting, high-temperature resistant wire(185°C) must be adopted.
- 3.The explosion-proof lightings are intended to be vertically mounted at a maximum of 25 degrees from the vertical.
4. After deenergizing, delay 15 minutes before opening.