



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEx CQM 12.0010X**

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[Certificate history:](#)  
[Issue 0 \(2012-05-16\)](#)

Status: **Current**

Issue No: 1

Date of Issue: **2023-01-05**

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
No. 555 Baoqian Road, Jiading District, Shanghai, 201808  
**China**

Equipment: **Explosion-proof light fittings typed BnD81-250-\*\*-\***

Optional accessory:

Type of Protection: **Restricted-breathing enclosure "nR", Dust ignition protected by enclosure "tb"**

Marking: **Ex nR IIC T3 Gc, Ex tb IIIC T190°C Db**

**Tamb: -60°C~+55°C/-60°C~+50°C**

Approved for issue on behalf of the IECEx  
Certification Body:

**Ji Xiaodong**

Position:

**President**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**China Quality Mark Certification Group Co., Ltd.**  
No. 33 Zengguang Road, Haidian District  
Beijing City, Postal code: 100048  
**China**

**CQM**  
China Quality Mark



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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
No. 555 Baoqian Road, Jiading District, Shanghai, 201808  
**China**

Manufacturing locations: **WAROM TECHNOLOGY  
INCORPORATED COMPANY**  
No. 555 Baoqian Road, Jiading  
District, Shanghai, 201808  
**China**

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with 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 Reports:

**CN/CQM/ExTR12.0025/00** **CN/CQM/ExTR12.0025/01**

Quality Assessment Report:

**CN/CQM/QAR07.0003/11**



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**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The BnD81-250 Series explosion-proof light fittings are protected by type "nR" and "tb". It is 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 E39/E40 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. The product meets IP65 according to the requirement of IEC 60529.

Refer to attachment for detail of nomenclature and electrical parameters.

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

Refer to the attachment of this certificate.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Correct and optimize the description of requirements for the temperature of cable.
2. Add the ambient temperature range:  $-60^{\circ}\text{C} \leq \text{Ta} \leq +50^{\circ}\text{C}$ .
3. Update the standard to IEC 60079-0:2017, IEC 60079-15:2017, IEC 60079-31:2013.
4. Update the Ex marking "Ex nR IIC T3 Gc, Ex t IIIC T190°C Db" change to "Ex nR IIC T3 Gc, Ex tb IIIC T190°C Db".

## Annex:

[IECEx CQM 12.0010X issue 1 Attachment\\_1.pdf](#)



# Attachment to Certificate

IECEx CQM 12.0010X issue No.1



## Applicant:

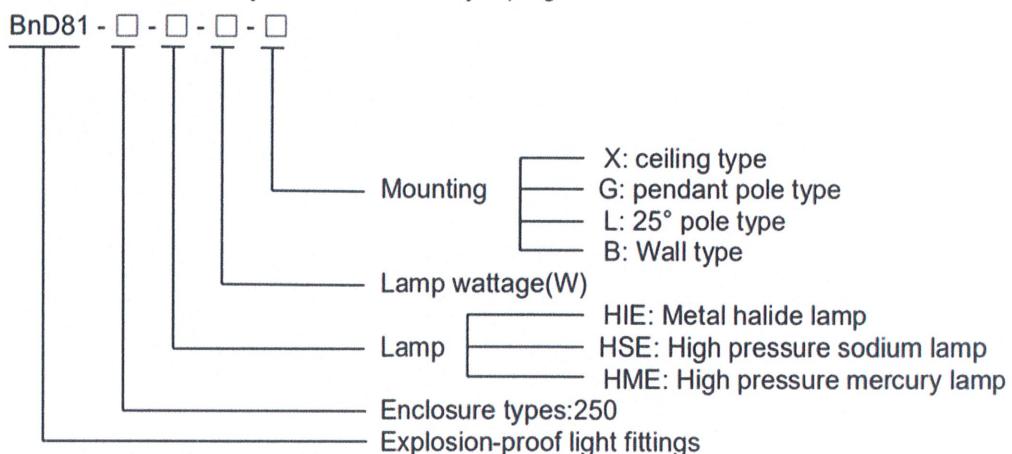
Warom Technology Incorporated Company

Address: No.555, Baoqian Road, Jiading, Shanghai, 201808, PRC

## Electrical equipment:

Explosion-proof light fittings typed BnD81-250-\*\*-\*

The details of nomenclature are as following:



The options for lamp wattage are: 150W, 175W and 250W.

## Electrical parameters:

Refer to Table 1 and Table 2 for the relation between electrical parameters and temperature class

Table 1 European standard

Rated voltage(V)	Rated power(W)	Temperature class	
		Gas	Dust
220V~250V AC 50/60Hz	HIE175W	T3	T190°C
	HIE250W		
	HSE150W		
	HSE250W		
	HME175W		
	HME250W		

Table 2 American standard

Rated voltage(V)	Rated power(W)	Temperature class	
		Gas	Dust
120V/208V/240V /277V/480V AC 50/60Hz	HIE175W	T3	T190°C
	HIE250W		
	HSE150W		
	HSE250W		



## Attachment to Certificate

IECEx CQM 12.0010X issue No.1



### Specific condition of use:

1. If the enclosure needs to be opened, the gasket shall be replaced with the gasket specified by the manufacturer.
2. When user connecting, high-temperature resistant wire must be adopted, details see blow:

Rated power (W)	Ambient temperature: -60°C~+50°C	Ambient temperature: -60°C~+55°C
	The minimum heat resistance temperature of the cable or wire in the entry device (°C)	
HSE150, HSE250	85	90
HIE175, HIE250	90	95
HME175, HME250	78	83

3. The explosion-proof light fittings are intended to be vertically mounted at a maximum of 25 degrees from the vertically downward.
4. The equipment shall not be used in areas affected by charge- producing processes, mechanical friction and separation processed electron emission (e.g in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust to avoid electrostatic in the combustible dust atmospheres.
5. Observe the warning "WARNING – DO NOT OPEN, MAINTAIN OR SERVICE IN AN AREA WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"