



# 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 12.0039X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 Issue 0 (2012-10-23)  
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 BnD81-400 Series**  
Optional accessory:  
Type of Protection: **Restricted-breathing enclosures "nR", Dust ignition protection by enclosures "tb"**  
Marking: Ex nR IIC T4...T3 Gc, Ex nR IIC T212°C Gc  
Ex tb IIIC T130°C...T190°C Db, Ex tb IIIC T212°C Db  
Tamb: -60°C~+40°C/ -60°C~+55°C

Approved for issue on behalf of the IECEx  
Certification Body:

Ji Xiaodong

Position:

President

Signature:  
(for printed version)

2023. 1. 5

Date:  
(for printed version)

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





# IECEX Certificate of Conformity

Certificate No.: **IECEX CQM 12.0039X**

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Date of issue: 2023-01-05

Issue No: 1

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/ExTR12.0046/00

CN/CQM/ExTR12.0046/01

Quality Assessment Report:

CN/CQM/QAR07.0003/11





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Date of issue: 2023-01-05

Issue No: 1

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BnD81-400 series explosion-proof light fittings 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 the attachment for the detail of nomenclatures and electrical parameters.

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

Refer to the attachment for details.



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Date of issue: 2023-01-05

Issue No: 1

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

1. Correct and optimize the description of requirements for the temperature of cable.
2. Update the standard to IEC 60079-0:2017, IEC 60079-15:2017, IEC 60079-31:2013.
3. Update the Ex marking "Ex nR IIC T<sub>0</sub> Gc, Ex t IIIC T<sub>0</sub> Db" to "Ex nR IIC T4...T3 Gc, Ex nR IIC T212°C Gc, Ex tb IIIC T130°C...T190°C Db, Ex tb IIIC T212°C Db".
4. Modify the code in the nomenclature.

## Annex:

[IECEX CQM 12.0039X issue 1 Attachment\\_1.pdf](#)



# Attachment to Certificate

IECEx CQM 12.0039X issue No.1



## Applicant:

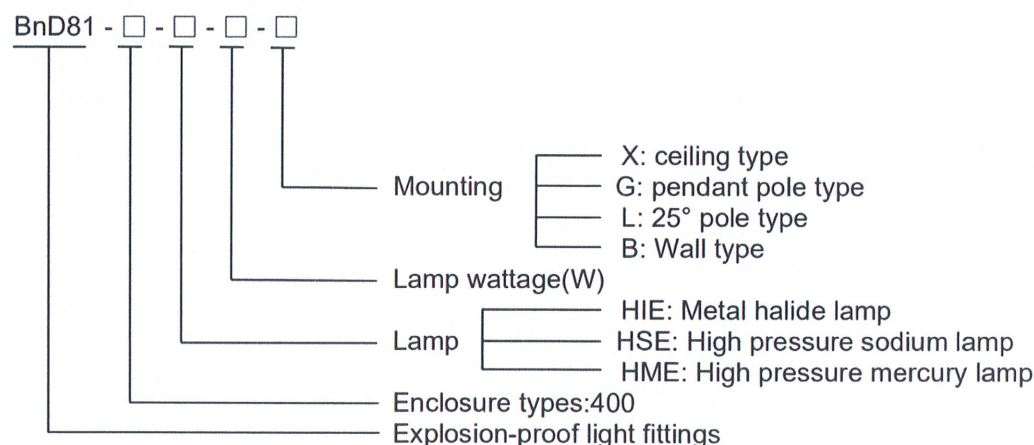
**Warom Technology Incorporated Company**

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

## Electrical equipment:

Explosion-proof light fittings typed BnD81-400-\*-\*

The details of nomenclature are as following:



The option for lamp wattage is: 400W.

## Electrical parameters:

Refer to Table 1 and Table 2 for the relation between electrical parameters, temperature class and combination of lamps, ballasts and capacitors.

Table 1 European standard

Rated voltage(V)	Rated power(W)	Temperature class			
		-60°C≤Ta≤+40°C		-60°C≤Ta≤+55°C	
		Gas	Dust	Gas	Dust
220V~250V AC 50/60Hz	HIE400W	T3	T190°C	T3	T190°C
	HSE400W				
	HME400W				
				T212°C	T212°C

Table 2 American standard

Rated voltage(V)	Rated power(W)	Temperature class			
		-60°C≤Ta≤+40°C		-60°C≤Ta≤+55°C	
		Gas	Dust	Gas	Dust
120V/208V/240V /277V/480V AC 50/60Hz	HIE400W	T3	T190°C	T3	T190°C
	HSE400W	T4	T130°C		





# Attachment to Certificate

IECEX CQM 12.0039X 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~+40°C	Ambient temperature: -60°C~+55°C
	The minimum heat resistance temperature of the cable or wire in the entry device (°C)	
HSE400	87	102
HIE400	90	105
HME400	91	106

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"