



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

Certificate No.: IECEx EUT 18.0002X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-03-22\)](#)

Status: **Current**

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Date of Issue: **2018-03-22**

Applicant: **Warom Technology Incorporated Company**
No.555, BAOQIAN ROAD, JIADING DISTRICT, SHANGHAI, CHINA
China

Equipment: **HRND95 Explosion-proof LED Lightings**

Optional accessory:

Type of Protection: **Restricted-breathing enclosure 'nR', Dust ignition protection 't'**

Marking:

Ex nR IIC T6,T5 Gc

Ex tc IIIC T80°C,T95°C Dc

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

Dionisio Bucchieri

Position:

Head of IECEx Certification Body

*Signature:
(for printed version)*

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:

Eurofins Product Testing Italy S.r.l.
Via Cuorgnè,
n.21 - 10156 Torino
Italy



Product Testing



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Manufacturer: **Warom Technology Incorporated Company**
No.555, BAOQIAN ROAD, JIADING DISTRICT, SHANGHAI, CHINA
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 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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:

[IT/EUT/ExTR18.0003/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/07](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The HRND LED series consists in explosion-protected LED light fittings having safety concept based on "nR" and "tc" modes of protection. The enclosure of the equipment is made in aluminium alloy material and the light transmitting part is made of tempered glass. The LED modules are included in the LED chamber; this part of equipment is interconnected via a threaded plug to the terminal compartment where the other electrical components (such as LED driver and terminal blocks) are installed. The terminal compartment is provided with a threaded cable entry having thread specification M20x1.5 and the equipment wiring is permitted by means of already certified cable gland.

Both external and internal earth connections are provided.

The degree of protection of the enclosure is IP66 according to IEC 60079-0 and IEC 60529.

Electrical parameters:

Rated voltage range: 100~277V AC, 50/60Hz; 130~250V DC

Power ratings: 40W, 50W, 60W, 80W, 120W, 160W, 200W, 240W, 300W

Relationship between power, ambient temperature and temperature classes:

Enclosure type	Power(W)	Temperature class			
		Tamb:-40°C ~+55°C		Tamb:-40°C ~+40°C	
		Gas	Dust	Gas	Dust
60	40	T6	T80°C	T6	T80°C
	50	T5	T95°C		
	60	T5	T95°C		
120	80	T6	T80°C		
	120	T5	T95°C		
200	160	T5	T95°C		
	200	T5	T95°C		
300	240	T5	T95°C		
	300	T5	T95°C		



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Warning label

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTION

WARNING – DO NOT OPEN WHEN ENERGISED

WARNING – DO NOT OPEN IN HAZARDOUS ATMOSPHERE

EXTERNAL CABLES OF TEMPERATURE RATINGS MORE THAN 80°C SHOULD BE USED

Routine tests

The routine test for restricted-breathing enclosure have to be carried out according to Clause 23.2.3.2 of IEC 60079-15: 2010 (no test port provided). The time interval required for an internal pressure of 0.3 kPa below atmospheric to change to 0.27 kPa below atmospheric shall be not less than 27 s.

SPECIFIC CONDITIONS OF USE: YES as shown below:

A test port is not included in the equipment. After the opening of the covers pay attention to avoid damages to the gaskets and check their status. If necessary contact the manufacturer for gaskets replacement.