



# 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 UL 18.0058X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-08-08\)](#)

Status: **Current**

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Date of Issue: **2018-08-08**

Applicant: **Top Hi-Tech Co., Ltd.**  
9F, No.1, Zhongshan Rd.  
Tucheng Dist  
New Taipei City 236  
**Taiwan**

Equipment: **LED Luminaire, Model L1511 Series**

*Optional accessory:*

Type of Protection: **Restricted Breathing "nR", Dust Protection by Enclosure "tb"**

Marking:

Ex nR IIC T5 Gc

Ex tb IIIC T100°C Db

-20°C ≤ Ta ≤ +55°C

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

Andrew Moffat

*Position:*

Project Engineer

*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:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **Top Hi-Tech Co., Ltd.**  
9F, No.1, Zhongshan Rd.  
Tucheng Dist  
New Taipei City 236  
**Taiwan**

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-31 : 2013</b> 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:

[US/UL/ExTR18.0066/00](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/02](#)



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## Schedule

### EQUIPMENT:

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

The Model L1511 Series of LED luminaires is suitable for use in hazardous location classified as Zone 2 and Zone 21. This luminaire consists of two interconnecting "nR"/"tb" chambers: one is the top cover for wiring connection to cable gland, the other one is the LED array chamber.

Please see Annex for additional information.

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

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – see instructions.
- The luminaire does not have a test port fitted.

### Annex:

[Annex to IECEx UL 18.0058X Issue 0.pdf](#)



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## TYPE DESIGNATION

Nomenclature for Luminaires:

The complete luminaire catalogue number example is as follows:

Cat.	THT	H	1511	A	B	K	C	9	I5
No.	1	2	3	4	5	6	7	8	9

- 1 – Brand name  
THT = Top Hi-Tech Co., Ltd.
- 2 – Category of product  
H = HazLoc LED lighting
- 3 – Model name  
1511 = Model L1511 series
- 4 – Designates type of PC Cover  
A = Clean type
- 5 – Designates type of Top Cover  
B = Short type
- 6 – Designates type of LED module  
K = SMD type
- 7 – Designates CCT of LED  
C = Cool white  
W = Warm white
- 8 – Designates voltage  
1 = 110 Vac  
2 = 220 Vac  
9 = 277 Vac
- 9 – Designates wattage of LED lighting  
F5 = 65 W  
G5 = 75 W  
I5 = 95 W

Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	Dust Temperature Rating
THTH1511ABK*1F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*1G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*1I5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2I5	-20°C to +55°C	T5	T100°C



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THTH1511ABK*9F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*9G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*9I5	-20°C to +55°C	T5	T100°C

## PARAMETERS RELATING TO THE SAFETY

THTH1511ABK\*1F5 – 110 Vac, 50/60 Hz, 65 W  
 THTH1511ABK\*1G5 – 110 Vac, 50/60 Hz, 75 W  
 THTH1511ABK\*1I5 – 110 Vac, 50/60 Hz, 95 W  
 THTH1511ABK\*2F5 – 220 Vac, 50/60 Hz, 65 W  
 THTH1511ABK\*2G5 – 220 Vac, 50/60 Hz, 75 W  
 THTH1511ABK\*2I5 – 220 Vac, 50/60 Hz, 95 W  
 THTH1511ABK\*9F5 – 277 Vac, 50/60 Hz, 65 W  
 THTH1511ABK\*9G5 – 277 Vac, 50/60 Hz, 75 W  
 THTH1511ABK\*9I5 – 277 Vac, 50/60 Hz, 95 W

## MARKING

<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC9I5 -20°C ≤ Ta ≤ +55°C V:277 Vac P:95 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC2I5 -20°C ≤ Ta ≤ +55°C V:220 Vac P:95 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC1I5 -20°C ≤ Ta ≤ +55°C V:110 Vac P:95 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>
<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC9G5 -20°C ≤ Ta ≤ +55°C V:277 Vac P:75 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC2G5 -20°C ≤ Ta ≤ +55°C V:220 Vac P:75 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC1G5 -20°C ≤ Ta ≤ +55°C V:110 Vac P:75 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>
<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC9F5 -20°C ≤ Ta ≤ +55°C V:277 Vac P:65 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC2F5 -20°C ≤ Ta ≤ +55°C V:220 Vac P:65 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>	<p>TOP HI-TECH CO.,LTD Hazloc LED Lighting 9F, No.1, Zhongshan Road, Tucheng Dist. NewTaipei City, 236, Taiwan.(R.O.C)</p> <p>THTH1511ABKC1F5 -20°C ≤ Ta ≤ +55°C V:110 Vac P:65 W SN:1829-001</p> <p>DEMKO 18 ATEX 1961X IECEx UL 18.0058X   II 3 G Ex nR IIC T5 Gc Ex nR IIC T5 Gc      DEMKO 18 ATEX 2106X IECEx UL 18.0058X   II 2 D Ex tb IIC T100°C Db Ex tb IIC T100°C Db</p>

### NOTE:

- 1.Plate Board Material: SUS 304.
- 2.M3 Screw Fix.
- 3.0035 is the Notified Body number of TÜV Rheinland industrie Service GmbH.
- 3.SN number description as show the follow :

18 means 2018.  
 29 means 29th weeks.  
 001 means number of product.

**WARNING!**

WARNING - The luminaire shall not be opened.  
 WARNING - Potential Electrostatic Charging Hazard- See Instructions.  
 The luminaire does not have a test port fitted.

## ROUTINE EXAMINATIONS AND TESTS

Routine restricted breathing testing according to clause 23.2.3.2.1.2 of IEC/EN 60079-15 is required.