

# EU-TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

EU-Type Examination Certificate Number: **UL 20 ATEX 2339X Rev. 0**

Product: **LED Luminaires, L1915 Series: Models THTH1915S Series and THTH1915D Series**

Manufacturer: **Top Hi-Tech Co., Ltd.**

Address: **9F, No. 1, Zhongshan Rd., Tucheng District, New Taipei City 236, Taiwan (R.O.C)**

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in confidential report no. **4789249927.2.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-31:2014**

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following:



**II 2 D Ex tb IIIC T115°C...T100°C Db**

### Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2020-09-02

### Notified Body

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# Schedule

## EU-TYPE EXAMINATION CERTIFICATE No.

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[15] Description of Product  
The L1915 Series of LED luminaires is suitable for use in hazardous location classified as Zone 21. This luminaire consists of one "tb" LED array chamber.

Nomenclature for Luminaires:

The complete luminaire catalogue number example is as follows:

| Cat. | THT | H | 1915 | S | C | K | C | 9 | P0 |
|------|-----|---|------|---|---|---|---|---|----|
| 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  
1915 = Model L1915 Series

4 – Designates quantity of Tank  
S = Single Tank (For 120 W, 140 W, 150 W, 180 W, 200 W, 220 W, 250 W only)  
D = Dual Tank (For 240 W, 280 W, 300 W, 360 W, 400 W, 440 W, 500 W only)

5 – Designates type of Top Cover  
C = Top Cover with opening

6 – Designates type of LED module  
K = Circle SMD type

7 – Designates CCT of LED  
C = Cool white  
W = Warm white

8 – Designates voltage of luminaire  
1 = 110 Vac  
6 = 120 Vac  
2 = 220 Vac  
D = 230 Vac  
9 = 277 Vac  
F = 347 Vac  
C = 480 Vac

9 – Designates wattage of luminaire  
L0 = 120 W (For single Tank only)  
N0 = 140 W (For single Tank only)  
P0 = 150 W (For single Tank only)  
S0 = 180 W (For single Tank only)  
U0 = 200 W (For single Tank only)  
W0 = 220 W (For single Tank only)  
Y0 = 240 W (For dual Tank only)  
25 = 250 W (For single Tank only)  
28 = 280 W (For dual Tank only)  
30 = 300 W (For dual Tank only)  
36 = 360 W (For dual Tank only)  
40 = 400 W (For dual Tank only)  
44 = 440 W (For dual Tank only)  
50 = 500 W (For dual Tank only)

Models covered are as follows:

| Models                                                                                                                         | Ambient Temperature range | Temperature Rating |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------|
| THTH1915SCKxyz                                                                                                                 | -20°C to +40°C            | T100°C             |
| THTH1915DCKxyz                                                                                                                 | -20°C to +60°C            | T115°C             |
| x can be C or W; y can be 1, 6, 2, D, 9, F or C; z can be L0, N0, P0, S0, U0, W0 or 25; zz can be Y0, 28, 30, 36, 40, 44 or 50 |                           |                    |

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 2) to the scope of EN 60079-28:2015.

Electrical data:

| Models                                                                                                                         | Voltage (Vac)               | Wattage (W)                 |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|
| THTH1915SCKxyz                                                                                                                 | 110/120/220/230/277/347/480 | 120/140/150/180/200/220/250 |
| THTH1915DCKxyz                                                                                                                 | 110/120/220/230/277/347/480 | 240/280/300/360/400/440/500 |
| x can be C or W; y can be 1, 6, 2, D, 9, F or C; z can be L0, N0, P0, S0, U0, W0 or 25; zz can be Y0, 28, 30, 36, 40, 44 or 50 |                             |                             |



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**Schedule**  
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Routine tests:

Routine is not required.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – see instructions.
- The gasket not to be replaced in the field.

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Models L1915 Series has in addition passed the tests for Ingress Protection to IP67 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark **THT-EX** or **THT-EX** will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

