

**EU-Type Examination Certificate****(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU****(3) EU – Type Examination Certificate Number: IEP 20 ATEX 0764****(4) Product: TBxx Type Led Explosion Proof Light****(5) Firm Name: SHENZHEN UNICORN LIGHTING CO., LTD.****(6) Firm Address: 3rd floor, Baosanhe Industry Park, Kukeng, Guanlan, 518110 Shenzhen, CHINA****(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.****(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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 Nr: IEP.Rp.Ex.10-1607 date 09.03.2020.****(9) Compliance with Essential Health and safety requirements has been assured by compliance with;****EN 60079-0 : 2013 , EN 60079-7 : 2015 , EN 60079-18 : 2015 , EN 60079-31 : 2014****(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.****(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.****(12) The marking of the equipment or protective system shall include the following:****II 2G Ex eb mb IIC T4 Gb  
II 2D Ex tb IIIC T(95 °C) Db****Responsible Person:****Nurettin Terzioglu  
Head of Certification Body****Date of Issue: 24.03.2020**



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(13) Schedule

(14) Certificate Nr: **IEP 20 ATEX 0764**

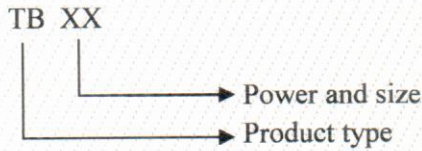
(15) Description of Equipment Protective System:

The TB xx Type Led Explosion Proof Light is a system with led. Encapsulation is available on LEDs. The drive is assembled inside the capsule. Cable entry sleeve is Ex e type. TB xx type led light body made from Aluminum. Led driver is in the body. e type terminal is used for the cable connection. To must be used of ground cable 4 mm<sup>2</sup> (min) and HD 21.13.S1/HD.22.4.S4 .

TB xx Type Led Explosion Proof Light has been evaluated in the contents of IP 65.

TB xx Type Led Explosion Proof Light use as zone 1, zone 21 and mining are that be used danger area determined in the EN 60079-10-1/2 standard.

## Product Coding System



## Technical Parameters: TB xx Type Led Explosion Proof Light

TYPE	TB020SE2	TB040SE2	TB040SE4	TB060SE4	TB080SE4	TB020EE2	TB040EE2	TB040EE4	TB060EE4	TB080EE4
Voltage V – AC, Current	(100 ~ 277 )V, AC									
Power (W)	20	40	40	60	80	20	40	40	60	80
Frequency	50~ 60 Hz									
Optical irradiance	0,24 mW/mm <sup>2</sup>									
Optical power	23,7 mW									
IP XY	IP 65									
Ambient Temperature (°C)	(- 10 ~ + 45 ) °C									

(16) Essential Health and Safety Requirements:

**16.1** Are included in standards, which are mentioned in clause (9) of this certificate. The products were approved in accordance with above mentioned standards and manufacturer's instruction.

**16.2** At the installation and the operation of the TB xx Type Led Explosion Proof Light has to be observed manufacturer's manual 5 pages dated June.2019.

**Responsible person :**  
NurettinTerzioglu  
Head of certification body





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(17) Certificate Nr : IEP 20 ATEX 0764

(18) List of Documentation:

- CTI test report , Nr : EED31K000844 Date : 04.04.2018 (7 pages)
- LVD test report POCE , Nr :11030401RS Date : 24.02.2011 (37 Pages)
- IP xy Test Referance Nr: LCS180227016BS (2 Pages)
- EMC Test Referance Nr: LCS180227017BE (2 Pages)
- SGS test report, Nr: GZIN1807034933MR and date 13.06.2018(5 Pages)
- SGS test report, Nr: SZIN1809012997PC-SZ(5 Pages)

(19) Drawings :

Drawing Nr ;	Drawing Name ;	Date ;
170501-00	Assembly drawing	15.05.2017
170501-01	Electrical connection diagram	15.05.2017
170501-02	Led drawing	15.05.2017
170501-04	Silicone ring	15.05.2017
170501-05	End cap drawing	15.05.2017
170501-06	Aluminum lamp body	15.05.2017
170501-07	PCP	15.05.2017
170501-08	Label	15.05.2017
170501-13	PC lamp cover	15.05.2017
170501-14	AL strip	15.05.2017
170501-15	Front seal plate	15.05.2017
170501-18	Steel bracket	15.05.2017

For the validity of analysis type certificate, the parts that are used in TB xx type led Explosion Proof Light is determined in confirmed 23.06.2019 dated in the component and part list.

**Responsible Person:**  
Nurettin Terzioglu  
Head of Certification Body



**Date of Issue: 24.03.2020**

