



EU-TYPE EXAMINATION CERTIFICATE

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

EU-Type Examination Certificate Number **LOM 19ATEX1068X**

Product **Floodlight LED
Types FLD ****

Manufacturer **Shomal Eng & Mfg (Pirooz) Co.**

Address **C2 Ave. Salmanshahr Industrial Park
Salmanshahr, Mazandaran
IRAN**

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

Laboratorio Oficial J.M. Madariaga (LOM), Notified Body number 0163, in accordance with Article 17 of Directive 2014/34/EU of the 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 No **LOM 18.571H**

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


Standards **EN 60079-0:2012+A11:2013 EN 60079-1:2014
EN 60079-7:2015 EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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 this certificate.

The marking of the product shall include the following:

 **II 2G Ex db IIC T6...T5 Gb or Ex db eb IIC T6...T5 Gb
II 2D Ex tb IIC T85 °C...T100 °C Db**

Getafe,
Digitally signed by:

Certification committee

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Page 1/2



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13

SCHEDULE

14

EU-Type Examination Certificate number: LOM 19ATEX1068X

15

Description of product

The FLD floodlight consists of a housing for the LEDs and another housing for the controller. The whole set is made of cast aluminium.

The LED housing has a transparent part based on flat tempered glass cemented in a threaded ring that forms the cover of this enclosure.

The electrical connection between compartments is made with specific bushings.

These enclosures have the flameproof type of protection, with the increased safety option for the junction box, as well as protection by enclosure type of protection.

Variants are coded FLD ***, where *** indicates the LED drive factory-set power in W

LEDs supply power (W)	95	125	145	180	220	95	125	145	180	220
Temperature class	T6					T6				
Maximum surface temperature	T85 °C					T85 °C				
Ambient temperature range	-30°C ≤ Ta ≤ +40°C					-30°C ≤ Ta ≤ +55°C				

The enclosure complies with the degree of protection IP66 according to EN 60529

16

Report number LOM 18.571H

Individual tests

The main LEDs housing of each manufactured unit, including bushings, must subjected to overpressure individual tests at 1400 kPa in accordance with paragraph 15.1.3 of EN 60079-1:2014

The driver housing and the junction box are excluded from the individual tests as they have been subjected to four times the reference pressure.

17

Specific conditions of use

The driver power setting can only be done in factory

18

Essential Health and Safety Requirements

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

19

Drawings and documents

Number	Sheets	Issue	Date	Description
FLD Driver enclosure (sheet 1/11)	1	A	2020-01-27	Driver enclosure
FLD Driver housing cover (sheet 2/11)	1	A	2020-01-27	Driver housing cover
FLD Terminal housing cover (sheet 3/11)	1	A	2020-01-27	Terminal housing cover
FLD heat dissipater (sheet 4/11)	1	A	2020-01-27	Heat dissipater
FLD Glass (sheet 5/11)	1	A	2020-01-27	Glass
FLD Front ring (sheet 6/11)	1	A	2020-01-27	Front ring
FLD External cable bushing (sheet 7/11)	1	A	2020-01-27	External cable bushing
FLD Internal cable bushing (sheet 8/11)	1	A	2020-01-27	Internal cable bushing
FLD Certification label (sheet 9/11)	1	A	2020-01-27	Marking label
FLD Flameproof joints (sheet 10/11)	1	A	2020-01-27	Flameproof joints
FLD General arrangement (sheet 11/11)	1	A	2020-01-27	General arrangement
WI-30(PCD-P-01)/00	12	0	2020	Operating instructions