



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx KTL 20.0008X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-04-02

Applicant: **SUNIL ELECOMM CO., LTD.**  
21-19, Jangsu-ro 342beon-gil, Jangsu-myeon, Yeongju-si  
Gyeongsangbuk-do 36145  
Korea, Republic of

Equipment: **Floodlight, EXLEDF\*\*\*\*n-\*\*\*\*\* series**

Optional accessory:

Type of Protection: **Increased safety "e", Encapsulation "m", Restricted-breathing enclosure "nR"**

Marking: **Ex ec mc nR IIC T6/T5 Gc**

Approved for issue on behalf of the IECEx  
Certification Body:

Park, Jong-koo

Position:

Certification Manager

Signature:  
(for printed version)

Date:

2020 - 04 - 02

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Certificate issued by:

**Korea Testing Laboratory**  
87, Digital-ro, 26-gil, Guro-gu  
Seoul  
Korea, Republic of





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Gyeongsangbuk-do 36145  
**Korea, Republic of**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

This Certificate **does not** indicate compliance with 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:

KR/KTL/ExTR20.0008/00

Quality Assessment Reports:

KR/KTL/QAR18.0004/00

KR/KTL/QAR18.0004/01

KR/KTL/QAR18.0004/02



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Floodlight, EXLED\*\*\*n-\*\*\*\*\* series, comprise the junction box, converter, and enclosure employing LEDs and cover made from polycarbonate. The luminaire can be mounted by means of the provided arm or welded single eyebolt. Temperature class is dependent on the lamp power used. The equipment provides IP66 in accordance with IEC 60529. Certified Ex Components are employed as follows.

### a) Enclosure

IECEx PRE 16.0083U, Ex eb IIC Gb(certified to IEC 60079-0:2011, and IEC 60079-7:2015)

### b) Terminal block

IECEx PTB 08.0048U, Ex eb IIC Gb(certified to IEC 60079-0:2011, and IEC 60079-7:2006)

IECEx PTB 04.0003U, Ex eb IIC Gb(certified to IEC 60079-0:2011, and IEC 60079-7:2015)

IECEx PTB 04.0004U, Ex eb IIC Gb(certified to IEC 60079-0:2011, and IEC 60079-7:2015)

### c) Wire connector

IECEx PTB 18.0045U, Ex eb IIC Gb(certified to IEC 60079-0:2017, and IEC 60079-7:2017)

## Thermal data

Refer to the annex.

## Electrical data

Lamp power: 50 W, 100 W, 200 W, 400 W

Rated voltage: (200 to 220) Vac, (50/60) Hz, 110 Vac, (50/60) Hz

## Model configuration

Refer to the annex.

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


POTENTIAL ELECTROSTATIC CHARGE-SEE INSTRUCTIONS

The test port is not provided and please refer to the instructions.

## Annex:

[Annex to IECEx KTL 20.0008X\(issue0\).pdf](#)



87. Digital-ro 26-gil, Guro-gu, Seoul, Korea	 한국산업기술시험원 Korea Testing Laboratory
Reference IECEx document	IECEx KTL 20.0008X(issue0)
Reference project number	PI200050

[Annex to IECEx KTL 20.0008X(issue0)]

EXLEDF aaan - bcdef

Symbol	Description	Option	
aaa	Lamp wattage	050	50 W
		100	100 W
		200	200 W
		400	400 W
n	Type of protection	n	Restricted-breathing
c	Voltage	1	(200-220) Vac
		2	110 Vac
		4	(200-220) Vac, 50 Hz
		5	110 Vac, 50 Hz
d	Entry type	G	1/2 NPT
		H	3/4 NPT
		M	M20
		Q	M25
e	The number of entries	1	1 ea
		2	2 ea
f	Mounting type	None	Normal fixed
		H	Hanging fixed
g	Guard	None	without guard
		G	with guard

Thermal data

Rated voltage	Ambient temperature	Lamp wattage	Temperature class
(200-220) Vac	-30 °C to +50 °C	50 W	T6
		(100/200/400) W	T5
110 Vac	-30 °C to +40 °C	50 W	T6
		(100/200/400) W	T5