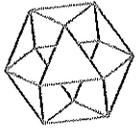


90459



NSAI
Certification

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning²

- Approval granted
- ~~Approval extended~~
- ~~Approval refused~~
- ~~Approval withdrawn~~
- ~~Production definitely discontinued~~

of a type of front fog lamp pursuant to Regulation No. 19.

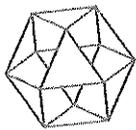
Approval No: E24*19R04/10*0071*00

Reason for extension: *N/A*

- | | | |
|----|---|---|
| 1. | Trade name or mark of the device: | <i>JF,</i>  |
| 2. | Type of the device: | <i>JF323</i> |
| 3. | Manufacturer's name for the type of device: | <i>JF323</i> |
| 4. | Manufacturer's name and address: | |
| 5. | If applicable, name and address of manufacturer's representative: | <i>N/A</i> |
| 6. | Submitted for approval on: | <i>18.04.2019</i> |
| 7. | Technical service responsible for conducting approval tests: | <i>ISOQA Technical Service Co., Ltd
60 Yong Long Rd., Da-Li,
Taichung, 412 Taiwan</i> |
| 8. | Date of report issued by that service: | <i>16.04.2019</i> |
| 9. | Number of test report issued by that service: | <i>ISOQA-19-0186-R19</i> |

¹ Distinguishing number of the country which has granted/refused/withdrawn approval (see approval provisions in the Regulation).

² Strike out which does not apply.



NSAI

Certification

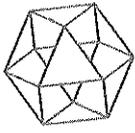
Approval No: E24*19R04/10*0071*00

10. Concise description:
- 10.1 Class as described by the relevant marking: *F3 PL*
- 10.2 Number and category(ies) of filament lamp(s): *N/A*
- 10.3 LED module(s): yes/~~no~~² and for each LED module a statement whether it is replaceable or not: yes/~~no~~² *Yes, non-replaceable*
- 10.4 LED module specific identification code: *MD E24 0071*
- 10.5 Application of electronic light source control gear³: yes/~~no~~² *Yes*
- Supply to the light source: *N/A*
- Specification of the light source control gear: *Part of the LED module and included in the lamp body*
- Input voltage⁴: *12V*
- In the case of an electronic light source control gear not being part of the lamp: *No*
- Output signal specification: *N/A*
- 10.6 Colour of light emitted: white/~~selective yellow~~² *White*
- 10.7 Luminous flux of the light source (see paragraph 5.10) greater than 2000 lumen: yes/~~no~~² *No*
- 10.8 Luminous intensity is variable: yes/~~no~~² *No*
- 10.9 The determination of the cut-off gradient (if measured) was carried out at: ~~10 m~~/25 m² *25 m*
11. Position of the approval mark : *On the lens*
12. Reason(s) for extension (if applicable): *N/A*
13. Approval granted/~~extended/refused/withdrawn~~² *Granted*
14. Place: *Dublin*
15. Date: *21st June, 2019*
16. Signature: 



³ The voltage specifications shall include the tolerances or voltage range as specified by the manufacturer and verified by this approval.

⁴ The parameters of the input voltage including duty cycle, frequency, pulse shape and peak voltage shall be included



NSAI
Certification

Approval No: E24*19R04/10*0071*00

Index to the Information Package

Date of issue:	<i>21st June, 2019</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives.	
2. Test report(s)	
- numbers(s):	<i>ISOQA-19-0186-R19</i>
- date of issue:	<i>16.04.2019</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>INFORMATION</i>
- date of issue:	<i>20.03.2019</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>14 pages</i>



Approval No: E24*19R04/10*0071*00

Appendix: Additional conditions, and advisory notes on legal alternatives.

A: Additional conditions:

1. The device, Type JF323, shall be marked as prescribed in the regulation.
2. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
3. Each individual product from series production shall be to the measurements specified in the attached drawings, and shall be manufactured only from the materials specified in the Approval documents.
4. Changes in the product are permitted only with the explicit permission of NSAI. Breaches of this requirement will lead to a withdrawal of the Type Approval, and in addition may be subject to criminal prosecution.
5. This Type Approval will expire when it is surrendered by the holder, or withdrawn by NSAI, or when the approved type of product no longer conforms to legal requirements. The recall of the Type Approval can be issued by NSAI when the conditions required for the issuing or continuation of the Type Approval are no longer current, or when the Approval holder is in breach of the duties attached to the Type Approval, or when it is established that the approved type no longer meets the requirements of traffic safety.
6. NSAI may at any time check the correct performance of the duties imposed by the grant of this Type Approval, and in order to do so, may make tests, or have tests made.
7. Changes in the company name, address or manufacturing site, as well as in any of the sales or other agents specified in the issuing of the approval must immediately be notified to the NSAI.
8. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
9. When the manufacture or sale of the vehicle, system, component or separate technical unit has not been started within one year of the date of issue of this certificate, then NSAI is to be informed. This requirement also applies when the manufacture or sale has been halted for more than one year, or when it ought to have been halted for more than one year. The initial commencement of manufacture or sale, or the resumption of manufacture or sale, shall then be notified to NSAI within one month of commencement or resumption.

B : Legal Options

Any objection to the requirements set out in this certificate shall be made within one month of the date of issue. The objection shall be made, in writing, to NSAI in Dublin.

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071

Type : JF323

Manufacturer : Kun Shan Jenn Fu Machinery Industry
Co.,Ltd.



ISOQA Technical Service Co., Ltd
Web: www.isoqa.org
E-mail: isoqa@isoqa.org

TEST REPORT

Concerning the Adoption of Harmonized Technical United Nations Regulations for
Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on
Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals
Granted on the Basis of these United Nations Regulations

Uniform provisions concerning the approval of power-driven vehicle front fog lamps.

Tested according ECE-R19 Supplement 10 to the 04 series of amendments of 10 February 2018

Kind of device: Class F3 Front Fog Lamp

Approval status	
X	Application for granting of a type approval
	Application for an extension of type approval No.
	Reason for the extension:

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071
Type : JF323
Manufacturer : Kun Shan Jenn Fu Machinery Industry
Co.,Ltd.



ISOQA Technical Service Co., Ltd
Web: www.isoqa.org
E-mail: isoqa@isoqa.org

0. General

- 0.1. Make (trade name of manufacturer) : JF 
- 0.2. Type : JF323
- 0.3. Version / Variant : --
- 0.4. Manufacturer's name and address :
- 0.5. Test laboratory : ISOQA Technical Service Co., Ltd
60, Yong Long Road,
41257 Da-Li, Taichung
Taiwan

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071

Type : JF323

Manufacturer : Kun Shan Jenn Fu Machinery Industry Co.,Ltd.



ISOQA Technical Service Co., Ltd

Web: www.isoqa.org

E-mail: isoqa@isoqa.org

1. Test object (s)

1.1. Information :

Material of Outer Lens	Sabic LEXAN LS-2 111 with UVHC 3000 Coating	
Material of Inner Lens	PMMA	
Material of Housing	ADC12	
Material of Reflector	ABS	
Rated Voltage	12 V	
Front Fog Lamp	Category	F3
	Light Source	1 x LED Module (1 LED in all), 12 V, 8.5W
	Light Source Control Gear	Type : part of the LED Module and include into the lamp body
	Color of light emitted	White
	Color of Outer lens	Clear
	Color of Inner lens	Clear
	Light Distribution	The light distribution are symmetrical, the horizontal arrow is not required.
	Grouped with	--
	Combined with	--
Incorporated with	--	

1.2. Location of Marking : see Appendix 2

1.3. Remark(s) :

1.3.1. There are no objections against the variants that may be described in the Information folder respectively the information document by the manufacturer because adversely effects are not expected.

1.3.2. tests of plastic material please see: LTIK Report No. PMT 060 and PMT 060 N1

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071
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ISOQA Technical Service Co., Ltd
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 E-mail: isoqa@isoqa.org

2. Test Specification

2.1. Place of test : Laboratory of ISOQA in Taiwan

2.2. Date of test : 2019/3/19 ~ 2019/4/8

2.3. Date of receipt of test device(s) : 2019/3/19

2.4. Test results :**2.4.1. Markings (according to paragraph 3 and 4 of ECE R19-04)**

a.	trade name or mark	Complies	see Appendix 2
b.	category of light sources / LED module specific identification code	Not Applicable	non-replaceable
c.	space reserved for the approval mark	Complies	see Appendix 2
d.	rated voltage or range of voltage	Complies	see Appendix 2
e.	marking on replaceable LED module	Not Applicable	non-replaceable
f.	marking on control gear	Not Applicable	include into the lamp body
g.	a symbol consisting of the number 24 crossed out by an oblique cross (x)	Not Applicable	non-filament lamp

2.4.2. General Specifications (according to paragraph 5 of ECE R19-04)

a.	conformity of specifications	Complies	
b.	design and construction for satisfactory operation	Complies	
c.	replaceable light sources	Not Applicable	
d.	LED Module(s)	Complies	
e.	tests for stability of photometric performance of front fog lamp in operation	Complies	see 3.3
f.	test for plastic lens	Complies	see 3.4
g.	total objective luminous flux	not exceeds 2000 lumen	see 3.5.3

Test Report No. : ISOQA-19-0186-R19

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- 2.4.3. Illumination (according to paragraph 6 of ECE R19-04)
- | | | | |
|----|--------------------------|----------|---------|
| a. | luminous intensity | Complies | see 3.1 |
| b. | sharpness of the cut-off | Complies | see 3.1 |
| c. | linearity of the cut-off | Complies | see 3.1 |
- 2.4.4. Colour (according to paragraph 7 of ECE R19-04) Complies see 3.2
- 2.4.5. LED Module (according to Annex12 of ECE R19-04)
- | | | | |
|----|-------------------------------------|----------------|-----------|
| a. | ageing | Complies | |
| b. | run-up test | Not Applicable | |
| c. | hot re-strike test | Not Applicable | |
| d. | colour rendering - red content | Complies | see 3.5.1 |
| e. | uv-radiation | Complies | see 3.5.2 |
| f. | temperature stability - illuminance | Complies | see 3.1 |
| g. | temperature stability - colour | Complies | see 3.2 |
| h. | objective luminous flux | Complies | see 3.5.3 |
- 2.5. Remark (s)
- 2.5.1 LED module specific identification code : MD E24 0071
- 2.5.2 LED module was operated for 15 h and cooled down to ambient temperature before starting the tests

Test Report No. : ISOQA-19-0186-R19

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3. Performance test(s)**3.1. Illumination Test**

Function : Front Fog Lamp Category : F3
 Test Voltage : 13.2 V Light Source : 1 x LED Module (1 LED in all)
 Test Distance : 25 m Current : 0.624 A / 0.647 A

3.1.1 Photometric Test

Lines or Zones	Minimum (cd)	maximum (cd)	Sample 1		Sample 2	
			1 min	stable	1 min	stable
2.5D-V	2700	12000	4552.457	4279.369	4562.459	4281.370
Point 1	-	85	1.489	1.400	0.959	0.900
Point 2	-	85	1.489	1.400	1.598	1.500
Point 3	-	85	3.405	3.201	2.985	2.801
Point 4	-	85	3.193	3.001	4.157	3.901
Point 5	-	85	2.235	2.101	1.813	1.701
Point 6	-	85	2.341	2.201	2.985	2.801
Point 7	-	85	9.046	8.503	7.462	7.002
Point 8	-	85	16.282	15.305	13.964	13.104
Point 9	-	85	16.920	15.905	25.265	23.708
Point 10	-	85	8.939	8.403	10.979	10.303
Line 1	-	130	51.270	48.194	58.546	54.939
Line 2	-	150	71.630	67.333	82.832	77.729
Line 3	-	245	98.622	92.706	118.873	111.549
Line 4	-	360	119.948	112.753	133.680	125.444
Line 5	-	485	196.303	184.527	211.992	198.931
Line 6	2700	12000	(4522.866) 4625.021	(4251.553) 4347.580	(4605.531) 4710.107	(4321.788) 4419.922
Line 7	-	0.5*Max line 6	710.416	667.800	795.234	746.240
Line 8L	1100	-	4274.076	4017.687	4515.513	4237.316
Line 8R	1100	-	4437.300	4171.120	4558.115	4277.294
Line 9R	450	-	3057.675	2874.254	2488.722	2335.394
Line 9L	450	-	2293.872	2156.270	3208.416	3010.748
Zone D	-	12000	4646.144	4367.436	4756.894	4463.826
Result			PASS	PASS	PASS	PASS

3.1.2 Quality of cut-off

	Requirement	Sample 1	Result	Sample 2	Result
sharpness	G > 0.08	0.160	PASS	0.130	PASS
Linearity	< ± 0.20°	0.050°	PASS	0.000°	PASS

Test Report No. : ISOQA-19-0186-R19

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Type : JF323

Manufacturer : Kun Shan Jenn Fu Machinery Industry Co.,Ltd.



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3.4. Tests on Complete Front Fog Lamp

Function : Front Fog Lamp

Class : F3

Test Voltage : 13.2 V

Light Source : 1 x LED Module (1 LED in all)

- Mechanical deterioration

Test Point	Minimum (cd)	Maximum (cd)	Value (cd)
LINE 2	-	195	168.411
LINE 5	-	630.5	513.197
Result			PASS

- Adherence of coatings

Requirement	Result
There shall be no appreciable impairment of the grated area. Impairments at the intersections between squares or at the edges of the cuts shall be permitted, provided that the impaired area does not exceed 15 per cent of the grated surface.	PASS

Test Report No. : ISOQA-19-0186-R19

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3.5. Additional Test for LED modules and front fog lamp including LED modules

3.5.1. Colour Rendering

- for 12 V system : $k_{red} = 0.071800$ (≥ 0.05)

3.5.2. UV-Radiation

- for 12 V system : $k_{uv} = 1.03E-06$ ($\leq 10^{-5}$ W/ lm)
($\leq 10^{-5}$ W/ lm)

3.5.3. Objective Luminous Flux

- for 12 V system : 463 lm

LED module specific identification code : MD E24 0071

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071
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4. Communication

Concerning : APPROVAL GRANTED

of a type of front fog lamp pursuant to Regulation No. 19

Approval No. 19R-04 0071 Extension No. 00

4.1. Concise description

Class as described by the relevant marking : F3 PL
Number and category(ies) of filament lamp(s): : NO

LED module : 1 non-replaceable LED MD (1 x LED in all),
12 V 8.5 W

LED module is replaceable or not : non-replaceable
LED module specific identification code : MD E24 0071
Application of electronic light source control gear : YES

- Supply to the light source : N/A
- Specification of the light source control gear : part of the LED module and included into the lamp body
- Input voltage : 12 V
- In the case of an electronic light source control gear not being part of the lamp : NO
- Output signal specification : N/A

Colour of light emitted : White
Luminous flux of the light source (see paragraph 5.10.) greater than 2,000 lumen : NO
Luminous intensity is variable : NO
The determination of the cut-off gradient (if measured) was carried out at : 25m

4.2. Approval mark position : on the LENS

4.3. Reason(s) for extension (if applicable) : N/A

Test Report No. : ISOQA-19-0186-R19

Approval No. : 19R-04 0071

Type : JF323

Manufacturer : Kun Shan Jenn Fu Machinery Industry
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5. Appendices

- | | |
|------------------------------------|--------------------|
| 1. Appendix 1 Information document | 1 page(s) in total |
| 2. Appendix 2 Drawing | 1 page(s) in total |

6. Statement of conformity

The information folder respectively information document by the manufacturer and the type described therein are in compliance with the Test Specification mentioned above.

ISOQA Technical Service Co., Ltd

Place : Taichung, Taiwan

Date : 2019/4/16

Signature

A handwritten signature in black ink that reads 'Archer Chang'.

Laboratory Manager - Chih-Hua Chang

Kun Shan Jenn Fu Machinery Industry Co.,Ltd.

No.555,Fengxing Road,
Huaqiao Town, Kunshan City, Jiangsu, China

TEL: 86-512-50350888

FAX: 86-512-50350866

INFORMATION

for Initial Application

Date: 2019/3/20

Manufacturer's Name and Address		
Trade name or mark	JF 	
Type Name	JF323	
Material of Outer Lens(es)	Sabic LEXAN LS-2 111 with UVHC 3000 Coating	
Material of Inner Lens(es)	PMMA	
Rate Voltage	12 V	
Rate Wattage	see below	
Front Fog Lamp (R19.04)	Category	F3
	Light Source	1 x LED Module (1 LED in all), 12 V, 8.5W
		(if anyone LED fails, at most this one fails)
	Color of light emitted	White
	Color of Outer lens	Clear
	Color of Inner lens	Clear

