

Repubblica di San Marino

Autorità per l'Omologazione Republic of San Marino Authority for Homologation

Via Consiglio dei Sessanta, 99 47891 Dogana - Repubblica di San Marino

Comunication Communication

E 57	Concernente ^{2/} Concerning ^{2/}	Il rilascio dell'omologazione Approval granted L'estensione dell'omologazione Approval extended Il rifiuto dell'omologazione Approval refused La revoca dell'omologazione Approval withdrawn La cessazione definitiva della produzione Production definitively discontinued
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of a type of lamp pursuant to Regulation No. 148

Lamp ² :		Rear-registration	on plate illuminating
			lamp
		Dire	ction indicator lamp
			Stop lamp
			Position lamp
		End-	outline marker lamp
			Reversing lamp
			Manoeuvring lamp
			Rear fog lamp
			Parking lamp
		Đá	aytime running lamp
	KEPLIKK	(' A	Side marker lamp
Category of the lamp:	2a, S1, R1, AR	Change index:	0

Omologazione N. Approval No.			00	
Marchio di omologaz Approval mark	ione	See information document No. DY-MX5-2401-S-00		
Identificatore Unico (Unique Identifier (UI) (i			N/A	

1.	Trade name or mark of the lamp:		(ACHAIC		
2.	Ma	nufacturer's name for the type of lamp:	DY-MX5-2401-S		
3.			Guangzhou Chiku Car Lights Co., Ltd. Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng District, Guangzhou		
4.		pplicable, name and address of the manufacturer's resentative:	N/A		
5.	Sub	omitted for approval on:	04/08/2024		
6. Technical Service responsible for conducting approval tests:			AUTOMOTIVE TECHNICAL SERVICE S.r.l. Via Consiglio dei Sessanta, 99 47891 – DOGANA Repubblica di San Marino		
7.	Dat	e of report issued by that Service:	27/08/2024		
8.	Nui	mber of report issued by that Service:	ATS-SM-IR-148-14578		
9.	Cor	ncise description:			
9.1	. In	case of			
9.1	.1.	A rear-registration plate illuminating lamp:	N/A		
		Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space):	N/A		
9.1	.2.	A direction indicator:	yes		
		Sequential activation of light sources:	yes /no²		
9.1	.3.	A reversing lamp:	yes		
		The lamp shall be installed on a vehicle only as a part of a pair of lamps:	yes/ no²		
9.1	.4.	A manoeuvring lamp:	N/A		
		The maximum mounting height:	N/A		
9.1	.5.	A daytime running lamp:	N/A		
		Maximum luminous intensity does not exceed	wes/no ²		

Rear direction indicator lamp Cat. 2a 9.2. By light signalling function and category: Stop lamp S1 Rear position lamp R1 Reversing lamp AR For mounting either outside or inside or both² Outside Colour of light emitted: Rear direction indicator lamp: Amber Stop lamp: Red Rear position lamp: Red Reversing lamp: White Number, category and kind of light source(s): Rear direction indicator lamp: 22*LEDs Stop lamp and Rear position lamp: 44*LEDs Reversing lamp: 3*LEDs Non-replaceable light source Lamp approved for LED substitute light source(s): yes/no² If yes, category of LED substitute light source(s): N/A Rear direction indicator lamp: 12V/7.5W Voltage and wattage: Stop lamp: 12V/11.7W Rear position lamp: 12V/2.8W Reversing lamp: 12V/0.8W Light source module: yes/no2 Light source module specific identification code: N/A Only for limited mounting height of equal to or less than 750 mm above the ground, if applicable: yes/no² Geometrical conditions of installation and relating variations, if any: See manufacturer's information document Application of an electronic light source control gear/variable intensity control: N/A (a) Being part of the lamp: yes/no2 (b) Being not part of the lamp: ves/no² Input voltage(s) supplied by an electronic light source control gear/variable intensity control: N/A Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body): N/A

yes/no2

Variable luminous intensity, if applicable:

Function(s) produced by an interdependent lamp forming part of an interdependent lamp system, if applicable:

N/A

9.3. The front position lamp², rear position lamp², stop lamp², end-outline marker lamp², daytime running lamp² is only for use on a vehicle fitted with a tell-tale indicating failure:

ves/no2

10. Position of the approval mark:

On the lens

11. Reason(s) for extension (if applicable):

N/A

12. Approval

GRANTED/EXTENDED/REFUSED/WITHDRAWN²

13. Approval granted for devices to be used on vehicles already in use only:

yes/no2

14. Place:

DOGANA - Repubblica di San Marino

15. Date:

09/09/2024

16. Signature:



Ing. Marco Conti Direttore Generale General Director

17. The list of documents deposited with the Type Approval Authority which has granted approval is annexed to this communication and may be obtained on request.

² Strike out what does not apply.

Alleg	ato					
Enclo	sure					
	rtificato di omologazione ECI E approval certificate No.	E N.	E	57*1	48R00/05*14	85*00
	e del fascicolo di omologazio to the information package	ne				
Data Date	of issue	09/09/2024	t		ima modifica endment date	
1.	Clausole di garanzia e istru Collateral clauses and instr			ricorso		
2.	Rapporto(i) Finale di Ispez Test report(s) No.	ione N.	ATS-SM-IR-148	3-14578	Data Date	27/08/2024
	Scheda informativa N.				Data Date	04/08/2024
3.	Information document No.		DY-MX5-240	1-S-00	Data ultima modifica Last amendment date	

REPUBBLICA DI SAN MARINO

Clausole di garanzia e istruzioni sul diritto di presentare ricorso

Clausole di garanzia

La produzione in serie deve essere esattamente conforme ai documenti di omologazione. Le variazioni di produzione in serie sono consentite solo con il consenso espresso del **Autorità per l'Omologazione**.

Le variazioni del nome della società, l'indirizzo e lo stabilimento di produzione, nonché una delle parti che hanno l'autorità alla consegna o eventuali rappresentanti nominati al momento del rilascio dell'omologazione, devono essere immediatamente comunicate al **Autorità per l'Omologazione**. La violazione di queste regole può portare al ritiro dell'omologazione ed inoltre può essere legalmente perseguita.

L'omologazione decade se viene restituita o ritirata o se il tipo omologato non è più conforme ai requisiti di legge. La revoca può essere fatta se non esistono più i requisiti richiesti per il rilascio e la continuazione dell'omologazione, se il titolare dell'omologazione viola gli obblighi dettati dall'omologazione, anche nel caso in cui gli obblighi derivino dalle condizioni assegnate all'interno dell'omologazione, o se è accertato che il tipo approvato non è conforme ai requisiti di sicurezza del traffico e di tutela dell'ambiente.

L'Autorità per l'Omologazione può verificare la corretta applicazione della delega conferita rilasciata nella presente omologazione, in qualsiasi momento. In particolare, questo include la verifica della produzione, che sia conforme, nonché le misure di controllo di conformità della produzione. Per questo, possono essere presi dei campioni dalla produzione. I dipendenti o rappresentanti dell'Autorità per l'Omologazione possono avere accesso senza ostacoli agli impianti di produzione e stoccaggio.

La delega conferita contenuta nella presente omologazione non è trasferibile. I diritti del marchio di terzi non sono interessati da questa omologazione.

Istruzione su diritto di ricorso

Questa omologazione è appellabile entro un mese dalla notifica. Il ricorso deve essere presentato per iscritto o come una domanda inviata all' **Autorità per l'Omologazione** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Collateral clauses and instruction on right to appeal

Collateral clauses

The individual production of serial fabrication must be in exact accordance with the approval documents. Changes in the individual production are only allowed with express consent of the **Authority for Homologation**.

Changes in the name of the company, the address and the manufacturing plant as well as one of the parties given the authority to delivery or authorized representative named when the approval was granted is to be immediately disclosed to the **Authority for Homologation**. Breach of this regulation can lead to recall of the approval and moreover can be legally prosecuted.

The approval expires if it is returned or withdrawn or if the type approved no longer complies with the legal requirements. The revocation can be made if the demanded requirements for issuance and the continuance of the approval no longer exist, if the holder of the approval violates the duties involved in the approval, also to the extent that they result from the assigned conditions to this approval, or if it is determined that the approved type does not comply with the requirements of traffic safety or environmental protection.

The **Authority for Homologation** may check the proper exercise of the conferred authority taken from this approval at any time. In particular this means the compliant production as well as the measures for conformity of production. For this purpose samples can be taken or have taken. The employees or the representatives of the **Authority for Homologation** may get unhindered access to the production and storage facilities.

The conferred authority contained with issuance of this approval is not transferable. Trade mark rights of third parties are not affected with this approval.

Instruction on right to appeal

This approval can be appealed within one month after notification. The appeal is to be filed in writing or as a transcript at the **Authority for Homologation** - Via Consiglio dei Sessanta, 99 - 47891 Dogana - Repubblica di San Marino.

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



Inspection Report

No. ATS-SM-IR-148-14578

Inspection concerning vehicles / components with regard to:

Uniform provisions concerning the approval of light-signalling devices (lamps) for power-drive vehicles and their trailers:

- Rear-registration plate illuminating lamps
- Direction indicator lamps
- Position lamps
- Stop lamps
- End-outline marker lamps
- Reversing lamps

- Manoeuvring lamps
- Rear fog lamps
- Parking lamps
- Daytime running lamps
- Side marker lamps

(strike out what does not apply)

performed according to

UN Regulation No. 148

as last amended by

oo series of amendments (supplement no. 05)

of the Economic Commission for Europe

Approval status				
	Number of approval			
ECE	E57*148R00/05*1485*00			

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



0. General information

0.1. Make (trade name of manufacturer):



0.2. Type: DY-MX5-2401-S

0.2.1. Variant(s): N/A

0.3. Name and address of manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng District,

Guangzhou

0.3.1 Name and address of manufacturer's authorized

representative:

N/A

0.3.2. Production plant(s) address(es): Guangzhou Chiku Car Lights Co., Ltd.

Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng District,

Guangzhou

0.4. Information document

No.: DY-MX5-2401-S-00

Date of issue: 04/08/2024

Date of last changed: ---

0.5. Position of the approval mark: On the lens

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



1 Concise description of the test object(s)

1.1 In case of a rear-registration plate illuminating lamp:

Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space):

1.2 In case of a direction indicator:

Sequential activation of light sources:

1.3 In case of a reversing lamp:

The lamp is installed on a vehicle only as part of a pair of lamps:

1.4 In case of a manoeuvring lamp:

The maximum mounting height:

Applicable / Not Applicable

N/A

Applicable / Not Applicable

Yes / No

Applicable / Not Applicable

Yes / No

Applicable / Not Applicable

N/A

1.6 By light signalling function and category

Lamp (function)	Symbol	Color	Light source(s)	voltage and wattage
Rear direction indicator lamp	2a	Amber	22*LEDs Non-replaceble	12V/7.5W
Rear position lamp	R1	Red	44*LEDs	12V/2.8W
Stop lamp	S1	Red	Non-replaceable	12V/11.7W
Reversing lamp	AR	White	3*LEDs Non-replaceable	12V/0.8W

1.6.1 For mounting either outside or inside or both

Inspection Rep	port No.:	ATS-SM-IR-148-14578	ATIC
Of:		27/08/2024	/ // >>
Туре:		DY-MX5-2401-S	
Manufacturer		Guangzhou Chiku Car Lights Co	o., Ltd.
1.6.2	Light source module:		Yes / No
	<u>6.11 </u>		1557, 115
1.6.3	Light source module spe	cific identification code:	N/A
1.6.4		ing height of equal to or the ground, if applicable:	Yes / No
1.6.5	Geometrical conditions of variations, if any:	of installation and relating	See Manufacturer's information document
1.6.6	Application of an electr gear/variable intensity co	ronic light source control ontrol:	N/A
	Being part of the lamp:		Yes / No
	Being not part of the lam		Yes / No
	Input voltage(s) supplie source control gear/varia	ed by an electronic light able intensity control:	N/A
	intensity control manufa	e control gear/variable acturer and identification source control gear is part	
		t included into the lamp	N/A
	Variable luminous intens		Yes / No
		an interdependent lamp dependent lamp system, if	N/A
1.6.7	lamp/ end-outline marke	/ rear position lamp/ stop er lamp/ daytime running	
	tale indicating failure:	a vehicle fitted with a tell-	Yes / No
1.6.8	Device(s) to be used or only	n vehicles already in use	Yes / No



N/A

1.7

Reasons for extension (if applicable):

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



2 Test conditions and measurement specifications according to UN Regulation No. 148

Test Equipment Refer to Appendix 3 2.1

Test Conditions 2.2

> In dependence on the particular lamp(s) tested, test conditions specified into paragraphs 4.7 of UN R148 apply for each lamp submitted for approval.

2.3 Photometric measurements

> dependence on the particular lamp(s) tested, measurements provisions and methods specified into paragraph 4.8 of UN R148 apply for each lamp submitted for approval

Conform / Not Conform

Conform / Not Conform

2.4 Colour of light emitted

The colour of the light emitted shall be red.

Red:

yellow boundary: y ≤ 0.335 purple boundary: $y \ge 0.980 - x$

Red:

yellow boundary: y ≤ 0.335 purple boundary: $y \ge 0.980 - x$

Sample No. 2 Sample No. 1 Χ 0.6858 0.6866 Υ 0.3049 0.3061

R1

Conform / Not Conform

S1 Sample No. 1 Sample No. 2 Χ 0.6883 0.6892 Υ 0.3040 0.3055

The colour of the light emitted shall be amber.

Amber:

green boundary: y<=x-0.120 red boundary: y ≥ 0.390

white boundary: $y \ge 0.790 - 0.670 x$

Conform / Not Conform

2a Sample No. 1		Sample No. 2
X 0.5799		0.5806
Υ	0.4166	0.4170

The colour of the light emitted shall be white.

White:

green boundary: y = 0.150 + 0.640 xyellowish green boundary: y = 0.440

yellow boundary: x = 0.500

reddish purple boundary: y = 0.382 purple boundary: y = 0.050 + 0.750 x

blue boundary: x = 0.310

Conform / Not Conform

AR	Sample No. 1	Sample No. 2
X 0.3189		0.3196
Υ	0.3207	0.3214



Signatory of EA, IAF and ILAC

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



3 General requirements and specifications

Each lamp submitted for approval is conform to the requirements set forth in paragraph 4 of UN Regulation No. 148.

Conform / Not Conform

UN R148 The requirements contained in sections 5 "General specifications" and 6 "Individual specifications" (and in the Annexes referenced in the said sections) of UN Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval apply to this Regulation.

Conform / Not Conform

The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.

Conform / Not Conform

Conform / Not Conform

IIN R148 The lamps are so designed and constructed that in normal conditions of use, and notwithstanding the vibrations to which they may be subjected in such use, their satisfactory operation remains assured and they retain the characteristics prescribed by UN Regulation 148.

UN R148 In case of replaceable light source(s):

4.3.1

info@ats-group.org

Applicable / Not Applicable

UN R148 The lamp is only equipped with light source(s) approved 4.3.1.1 according to UN Regulation No. 37 and/or UN Regulation No. 128, provided that no restriction on the use is made in UN Regulation No. 37 and its series of amendments in force at the time of application for type approval or in UN Regulation No. 128 and its series of amendments in force at the time of application for type approval.

Applicable / Not Applicable

UN R148 In the case of a light source category or categories or type(s) 4.3.1.2 is restricted for use in lamps on vehicles in use and originally equipped with such lamps, the applicant for type approval of the lamp shall declare that the lamp is only intended for installation on those vehicles; this is noted in the

Applicable / Not Applicable

UN R148 The design of the lamp is such that the light source(s) can be 4.3.1.3 fixed in no other position but the correct one.

Technical Service appointed by

Authority by San Marino

n. RSMAO-01

Applicable / Not Applicable

communication form, Annex 1.

Of: 27/08/2024

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Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

Applicable / Not Applicable

UN R148 The light source(s) holder shall conform to the characteristics 4.3.1.4 given in IEC Publication 60061. The holder data sheet relevant

to the category of light source(s) used, applies.

Alternatively, where a category of LED substitute light source(s) is also prescribed, the holder data sheet relevant to the category of LED substitute light source(s) applies.

Applicable and conform / Not Applicable

Applicable / Not Applicable

Conform / Not Conform

UN R148 In the case of light source modules

UN R148 The design of the light source module(s) is such as:

The light source module(s) is tamperproof.

4.3.2.1 (a) That each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s);

(b) If there are more than one light source module used in the housing for a lamp, light source modules having different characteristics cannot be interchanged within the same lamp housing.

Conform / Not Conform

A light source module is so designed that regardless of the use of tool(s), it isn't mechanically interchangeable with any

Technical Service appointed by

Authority by San Marino

n. RSMAO-01

replaceable approved light source.

UN R148 In the case of non-replaceable filament light source(s) or light source module(s) equipped with non-replaceable filament light source(s), the applicant shall annex to the type approval documentation a report, acceptable to the Authority responsible for type approval, that demonstrates compliance of these non-replaceable filament light source(s) with the requirements as specified in paragraph 4.11 of IEC 60809, Edition 3.

Conform / Not Conform



UN R148

4.3.2.2

UN R148

4.3.2.3

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



4 Specific requirements and specifications according to UN Regulation No. 148

Specific requirements applicability

UN R148 Lamps and their categories	UN R148 paragraph No.	Inspection Report Paragraph No.	Applicable (Yes / No)
Rear position lamps (symbol R1)	Par. 5.2	4.1	Yes
Stop lamps (symbol S1)	Par. 5.5	4.2	Yes
Direction-indicator lamps (Symbol 2a)	Par. 5.6	4.3	Yes
Reversing lamp (Symbol AR)	Par. 5.8	4.4	Yes

4.1 Rear position lamps (symbol R1)

Applicable / Not Applicable

UN R148 The light emitted by each of the two lamps supplied meets the 5.2.1 requirements in Table below.

Conform / Not Conform

Requirements for lumin	ous intensity			Light distribution in s (UN R148 Annex 2, page 1)	•
Lamp(s) and lamp categories	Minimum luminous intensity in HV	Maximum luminous intensity in any direction - single lamp	Maximum luminous intensity in any direction - lamp marked "D" (UN R148 paragraph 3.3.2.5.2.)	Minimum horizontal angles (inboard / outboard)	Minimum vertical angles (above / below)
Rear position lamps, R1 (steady)	(4)	[17]	[8.5]	45° / 80°	15° / 15°

Standard light distribution for front and rear position-, end-outline marker- lamps is conform to UN R148, Annex 3 specifications

Conform / Not Conform

UN R148

Outside the reference axis and within the angular fields defined in the diagrams in Part A of Annex 2 (above), the intensity of the light emitted by each lamp must in each direction corresponding to the points in the table of standard light distribution reproduced in paragraph 2. of Annex 3, be not less than the minimum specified in paragraph 5.2.1., multiplied by the percentage specified in the said table for the direction in question.

Technical Service appointed by

Authority by San Marino

n. RSMAO-01

Conform /-Not Conform

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Conform / Not Conform

UN R148

However, a luminous intensity of 60 cd is permitted for rear position lamps reciprocally incorporated with stop lamps below a plane

forming an angle of 5° with and downward from the horizontal plane;

UN R148 5.2.4

Throughout the fields defined in the diagrams in Part A of Annex 2, the luminous intensity of the light emitted must be not less than 0.05 cd for rear position lamps and end-outline marker lamps,

Conform / Not Conform

Photometric test results

Sample No. 1, normal mode, 44*LEDs lit together Tested voltage: 13.5V

N1 -	Point of the		Limits [cd]		Measured	values [cd]	Conclusion
No.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	0.80	17.00	7.21	7.48	Complies
2	5R	10U	0.80	17.00	7.81	8.10	Complies
3	20R	▲ 5U _	0.40	17.00	5.41	5.61	Complies
4	10R	5U	0.80	17.00	7.52	7.80	Complies
5	н	5U	2.80	17.00	9.88	10.25	Complies
6	10L	5U	0.80	17.00	6.87	7.13	Complies
7	20L	5U	0.40	17.00	4.92	5.10	Complies
8	10L	V	1.40	17.00	7.68	7.97	Complies
9	5L	V	3.60	17.00	10.14	10.52	Complies
10	Н	V	4.00	17.00	11.21	11.63	Complies
11	5R	V	3.60	17.00	10.47	10.86	Complies
12	10R	V	1.40	17.00	8.92	9.25	Complies
13	20R	5D	0.40	17.00	5.16	5.35	Complies
14	10R	5D	0.80	17.00	8.29	8.60	Complies
15	Н	5D	2.80	17.00	10.66	11.06	Complies
16	10L	5D	0.80	17.00	9.15	9.49	Complies
17	20L	5D	0.40	17.00	5.56	5.77	Complies
18	5L	10D	0.80	17.00	8.96	9.30	Complies
19	5R	5R 10D		17.00	9.01	9.35	Complies
20	All Directions Min.		0.05		0.22	0.23	Complies
21	All Direct	ions Max.		17.00	11.53	11.96	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



Sample No. 2, normal mode, 44*LEDs lit together

Tested voltage: 13.5V

	Point of the		Limit	s [cd]	Measured	values [cd]	Complement of
No.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	0.80	17.00	7.29	7.61	Complies
2	5R	10U	0.80	17.00	6.36	6.64	Complies
3	20R	5U	0.40	17.00	5.23	5.46	Complies
4	10R	5U	0.80	17.00	6.86	7.17	Complies
5	Н	5U	2.80	17.00	9.58	10.01	Complies
6	10L	5U	0.80	17.00	7.33	7.66	Complies
7	20L	5U	0.40	17.00	5.89	6.15	Complies
8	10L	V	1.40	17.00	7.32	7.65	Complies
9	5L	V	3.60	17.00	9.98	10.42	Complies
10	н	>	4.00	17.00	10.77	11.25	Complies
11	5R	V	3.60	17.00	9.41	9.83	Complies
12	10R	V	1.40	17.00	7.06	7.37	Complies
13	20R	5D	0.40	17.00	5.64	5.89	Complies
14	10R	5D	0.80	17.00	8.44	8.82	Complies
15	Н	5D	2.80	17.00	9.96	10.40	Complies
16	10L	5D	0.80	17.00	8.14	8.50	Complies
17	20L	5D	0.40	17.00	5.25	5.48	Complies
18	5L	10D	0.80	17.00	8.71	9.10	Complies
19	5R	5R 10D		17.00	8.22	8.59	Complies
20	All Directions Min.		0.05		0.26	0.27	Complies
21	All Direct	ions Max.		17.00	11.22	11.72	Complies

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

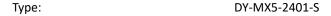


Sample No. 1, failed mode, 42*LEDs lit together

Tested voltage: 13.5V

N.	Point	of the	Limit	s [cd]	Measured	Canalusian	
No.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	0.80	17.00	6.83	7.06	Complies
2	5R	10U	0.80	17.00	7.44	7.69	Complies
3	20R	5U	0.40	17.00	5.10	5.27	Complies
4	10R	5U	0.80	17.00	7.12	7.36	Complies
5	Н	5U	2.80	17.00	9.36	9.67	Complies
6	10L	5U	0.80	17.00	6.48	6.69	Complies
7	20L	5U	0.40	17.00	4.63	4.78	Complies
8	10L	V	1.40	17.00	7.26	7.50	Complies
9	5L	V	3.60	17.00	9.64	9.96	Complies
10	Н	V	4.00	17.00	10.57	10.92	Complies
11	5R	V	3.60	17.00	9.94	10.27	Complies
12	10R	V	1.40	17.00	8.46	8.74	Complies
13	20R	5D	0.40	17.00	4.91	5.07	Complies
14	10R	5D	0.80	17.00	7.87	8.13	Complies
15	Н	5D	2.80	17.00	10.12	10.46	Complies
16	10L	5D	0.80	17.00	8.67	8.96	Complies
17	20L	5D	0.40	17.00	5.26	5.43	Complies
18	5L	10D	0.80	17.00	8.49	8.77	Complies
19	5R 10D		0.80	17.00	8.55	8.83	Complies
20	All Directions Min.		0.05		0.21	0.22	Complies
21	All Direct	ions Max.		17.00	10.98	11.34	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



Sample No. 2, failed mode, 42*LEDs lit together

Tested voltage: 13.5V

	Point of the		Limit	s [cd]	Measured	values [cd]	Complete in the
No.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	0.80	17.00	6.84	7.11	Complies
2	5R	10U	0.80	17.00	6.04	6.28	Complies
3	20R	5U	0.40	17.00	4.96	5.15	Complies
4	10R	5U	0.80	17.00	6.51	6.76	Complies
5	Н	5U	2.80	17.00	9.07	9.42	Complies
6	10L	5U	0.80	17.00	6.95	7.22	Complies
7	20L	5U	0.40	17.00	5.60	5.82	Complies
8	10L	V	1.40	17.00	6.95	7.22	Complies
9	5L	V	3.60	17.00	9.47	9.84	Complies
10	н	>	4.00	17.00	10.22	10.62	Complies
11	5R	V	3.60	17.00	8.95	9.30	Complies
12	10R	V	1.40	17.00	6.71	6.97	Complies
13	20R	5D	0.40	17.00	5.33	5.54	Complies
14	10R	5D	0.80	17.00	8.00	8.31	Complies
15	Н	5D	2.80	17.00	9.45	9.82	Complies
16	10L	5D	0.80	17.00	7.71	8.01	Complies
17	20L	5D	0.40	17.00	4.99	5.19	Complies
18	5L	10D	0.80	17.00	8.23	8.55	Complies
19	5R	10D	0.80	17.00	7.78	8.08	Complies
20	All Directions Min.		0.05		0.25	0.26	Complies
21	All Direct	ions Max.		17.00	10.68	11.10	Complies

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



4.2 Stop lamps (symbol S1)

Applicable / Not Applicable

UN R148 The light emitted by each of the two lamps supplied meets the requirements in Table below

Conform /-Not Conform

Requirements fo	r luminous inte	nsity	Light distribution in space (UN R148 Annex 2, part A)		
Lamp(s) and lamp categories	intensity in direction -		luminous intensity in any direction - lamp marked "D" (UN R148 paragraph 3.3.2.5.2.)	Minimum horizontal Minimum vertical angles angles (inboard / outboard) (above / below	
Stop lamp, S1 (steady)	(60)	[260]	[130]	45° / 45°	15° / 15°

Standard light distribution for stop lamps (in dependence of their particular category is conform to UN R148 Annex 3 specifications.

Conform /-Not Conform

UN R148 5.5.2

Outside the reference axis the intensity of the light emitted by each lamp is in each direction corresponding to the points in the table of standard light distribution reproduced in paragraph 2. of Annex 3 not less than the minimum specified in paragraph 5.5.1., multiplied by the percentage specified in the said table of the direction in question.

Conform / Not Conform



UN R148 5.5.3 Throughout the fields defined in the diagrams in Part A of Annex 2, the luminous intensity of the light emitted is not less than 0.3 cd for devices of categories S1, S3 and MS and for those of categories S2 and S4 by day; it is not less than 0.07 cd for devices of categories S2 and S4 by night.

Conform / Not Conform

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



Photometric test results

Sample No. 1, normal mode, 44*LEDs lit together Tested voltage: 13.5V

No.	Point	of the	Limit	s [cd]	Measured	values [cd]	Conclusion
NO.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	12.00	260.00	26.72	27.88	Complies
2	5R	10U	12.00	260.00	25.85	26.97	Complies
3	20R	5U	6.00	260.00	24.88	25.96	Complies
4	10R	5U	12.00	260.00	42.14	43.97	Complies
5	Н	5U	42.00	260.00	50.30	52.48	Complies
6	10L	5U	12.00	260.00	45.17	47.13	Complies
7	20L	5U	6.00	260.00	26.89	28.06	Complies
8	10L	V	21.00	260.00	45.37	47.34	Complies
9	5L	V	54.00	260.00	64.57	67.37	Complies
10	Н	V	60.00	260.00	72.23	75.36	Complies
11	5R	V	54.00	260.00	62.70	65.42	Complies
12	10R	V	21.00	260.00	42.36	44.20	Complies
13	20R	5D	6.00	260.00	24.64	25.71	Complies
14	10R	5D	12.00	260.00	41.32	43.11	Complies
15	Н	5D	42.00	260.00	52.63	54.91	Complies
16	10L	5D	12.00	260.00	43.23	45.10	Complies
17	20L	5D	6.00	260.00	24.30	25.35	Complies
18	5L	10D	12.00	260.00	24.65	25.72	Complies
19	5R	10D	12.00	260.00	23.79	24.82	Complies
20	All Directions Min.		0.30		2.24	2.34	Complies
21	All Direct	ions Max.		260.00	74.50	77.73	Complies

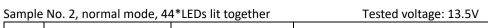
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Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

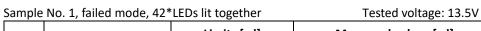


No	No. Point of the		Limit	s [cd]	Measured	values [cd]	Conclusion
NO.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	12.00	260.00	25.72	27.11	Complies
2	5R	10U	12.00	260.00	27.89	29.40	Complies
3	20R	5U	6.00	260.00	25.26	26.63	Complies
4	10R	5U	12.00	260.00	45.96	48.45	Complies
5	Н	5U	42.00	260.00	51.72	54.52	Complies
6	10L	5U	12.00	260.00	44.25	46.65	Complies
7	20L	5U	6.00	260.00	24.74	26.08	Complies
8	10L	V	21.00	260.00	43.73	46.10	Complies
9	5L	V	54.00	260.00	65.98	69.56	Complies
10	Н	V	60.00	260.00	73.26	77.23	Complies
11	5R	V	54.00	260.00	66.61	70.22	Complies
12	10R	V	21.00	260.00	45.22	47.67	Complies
13	20R	5D	6.00	260.00	25.54	26.92	Complies
14	10R	5D	12.00	260.00	45.36	47.82	Complies
15	Н	5D	42.00	260.00	53.26	56.15	Complies
16	10L	5D	12.00	260.00	44.41	46.82	Complies
17	20L	5D	6.00	260.00	25.28	26.65	Complies
18	5L	10D	12.00	260.00	24.74	26.08	Complies
19	5R	10D	12.00	260.00	25.72	27.11	Complies
20	All Directions Min.		0.30		2.20	2.32	Complies
21	All Direct	ions Max.		260.00	76.45	80.59	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

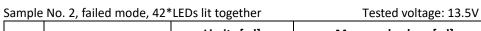


No	No. Point of the		Limit	s [cd]	Measured	values [cd]	Conclusion
140.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	12.00	260.00	25.57	26.48	Complies
2	5R	10U	12.00	260.00	24.51	25.38	Complies
3	20R	5U	6.00	260.00	23.76	24.60	Complies
4	10R	5U	12.00	260.00	40.65	42.09	Complies
5	Н	5U	42.00	260.00	48.09	49.80	Complies
6	10L	5U	12.00	260.00	43.64	45.19	Complies
7	20L	5U	6.00	260.00	25.54	26.45	Complies
8	10L	V	21.00	260.00	43.77	45.33	Complies
9	5L	V	54.00	260.00	61.12	63.29	Complies
10	Н	V	60.00	260.00	68.93	71.38	Complies
11	5R	V	54.00	260.00	59.59	61.71	Complies
12	10R	V	21.00	260.00	40.75	42.20	Complies
13	20R	5D	6.00	260.00	23.51	24.35	Complies
14	10R	5D	12.00	260.00	39.78	41.19	Complies
15	Н	5D	42.00	260.00	49.57	51.33	Complies
16	10L	5D	12.00	260.00	41.53	43.01	Complies
17	20L	5D	6.00	260.00	23.02	23.84	Complies
18	5L	10D	12.00	260.00	23.47	24.30	Complies
19	5R	10D	12.00	260.00	22.52	23.32	Complies
20	All Directions Min.		0.30		2.13	2.21	Complies
21	All Direct	ions Max.		260.00	70.84	73.36	Complies

Of: 27/08/2024

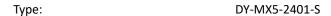


Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



No	No. Point of the		Limit	s [cd]	Measured	values [cd]	Conclusion
IVO.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	12.00	260.00	24.73	25.97	Complies
2	5R	10U	12.00	260.00	26.54	27.87	Complies
3	20R	5U	6.00	260.00	24.05	25.26	Complies
4	10R	5U	12.00	260.00	43.20	45.37	Complies
5	Н	5U	42.00	260.00	49.31	51.79	Complies
6	10L	5U	12.00	260.00	42.39	44.52	Complies
7	20L	5U	6.00	260.00	23.49	24.67	Complies
8	10L	٧	21.00	260.00	41.08	43.14	Complies
9	5L	V	54.00	260.00	62.93	66.09	Complies
10	Н	V	60.00	260.00	69.72	73.22	Complies
11	5R	V	54.00	260.00	63.49	66.68	Complies
12	10R	V	21.00	260.00	42.56	44.70	Complies
13	20R	5D	6.00	260.00	24.26	25.48	Complies
14	10R	5D	12.00	260.00	43.11	45.27	Complies
15	Н	5D	42.00	260.00	50.70	53.25	Complies
16	10L	5D	12.00	260.00	42.08	44.19	Complies
17	20L	5D	6.00	260.00	24.05	25.26	Complies
18	5L	10D	12.00	260.00	23.50	24.68	Complies
19	5R	10D	12.00	260.00	24.41	25.64	Complies
20	All Directions Min.		0.30		2.08	2.18	Complies
21	All Direct	ions Max.		260.00	73.47	77.16	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

Applicable and Conform / Not Applicable

UN R148 4.8.11

If a rear position lamp and/or a rear end-outline marker lamp is reciprocally incorporated with a stop lamp producing either steady or variable luminous intensity, the ratio between the luminous intensities actually measured of the two lamps when turned on simultaneously at the intensity of the rear position lamp or end-outline marker lamp when turned on alone should be at least 5: 1 in the field delimited by the straight horizontal lines passing through $\pm 5^{\circ}$ V and the straight vertical lines passing through $\pm 10^{\circ}$ H of the light distribution table.

Test results

Na	Point	of the	Lim	nits	Measured	values [cd]	Conclusion
No.	measu	measurement		Max.	Sample No. 1	Sample No. 2	Conclusion
1	10R	5U	5.00		6.40	7.44	Complies
2	V	5U	5.00		5.89	6.22	Complies
3	10L	5U	5.00		7.37	6.79	Complies
4	10L	Н	5.00		6.73	6.82	Complies
5	5L	Н	5.00		7.19	7.48	Complies
6	V	H	5.00	T	7.30	7.68	Complies
7	5R	Н	5.00	/	6.86	7.90	Complies
8	10R	Н	5.00	4	5.53	7.20	Complies
9	10R	5D	5.00		5.86	6.23	Complies
10	V	5D	5.00		5.81	6.20	Complies
11	10L	5D	5.00		5.54	6.28	Complies

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



4.3 **Direction-indicator lamps (Symbol 2a)**

Applicable / Not Applicable

UN R148 5.6.1

The light emitted by each of the two lamps supplied meets the requirements in Table below where the minimum luminous intensities are fulfilled:

(a) In the case of direction indicators of categories 1, 1a, 1b, 2a, 2b, 11, 11a, 11b, 11c and 12 in the reference axis; or

(b) In the case of direction indicators of categories 5 and 6 in direction A according to Annex 2.

Applicable and Conform / Not Applicable

Applicable and Conform / Not Applicable

Requirements for lum	ninou	us intensity	Light distribution in space (UN R148 Annex 2, parts A / B)			
Lamp(s) and lamp categories		luminous intensity in HV	luminous intensity in any direction - single lamp	luminous intensity in any direction - lamp marked "D" (UN R148 paragraph 3.3.2.5.2.)	Minimum horizontal angles (inboard / outboard)	Minimum vertical angles (above / below)
Direction indicator lamp, 2a (steady)		(50)	[500]	[250]	45° / 80°	15° / 15°

Standard light distribution for direction indicators (in dependence of their particular category is conform to UN R148 Annex 3 specifications.

Conform / Not Conform

UN R148 5.6.4 In divergence from paragraphs 4.8.3. and 4.8.3.1., for category 5 direction indicators, to the rear, a minimum value of 0.6 cd is required throughout the fields specified in Part A of Annex 2;

Applicable and Conform / Not Applicable

UN R148

Throughout the fields defined in the diagrams in Part A of Annex 2, the intensity of the light emitted is not less than 0.7 cd for lamps of category 1b, not less than 0.3 cd for lamps of categories 1, 1a, 2a, 11, 11a, 11b, 11c, 12 and for those of category 2b by day; it is not less than 0.07 cd for lamps of category 2b by night;

Conform / Not Conform

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

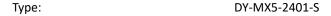


Photometric test results

Sample No. 1, normal mode, 22*LEDs lit together Tested voltage: 13.5V

No.	Point of the		Limit	ts [cd]	Measured	values [cd]	Conclusion
140.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	10.00	500.00	30.73	32.47	Complies
2	5R	10U	10.00	500.00	29.92	31.61	Complies
3	20R	5U	5.00	500.00	14.16	14.96	Complies
4	10R	5U	10.00	500.00	28.00	29.58	Complies
5	V	5U	35.00	500.00	45.01	47.56	Complies
6	10L	5U	10.00	500.00	32.11	33.93	Complies
7	20L	5U	5.00	500.00	15.63	16.51	Complies
8	10L	Н	17.50	500.00	30.90	32.65	Complies
9	5L	Н	45.00	500.00	57.37	60.62	Complies
10	Н	V	50.00	500.00	62.36	65.89	Complies
11	5R	Н	45.00	500.00	56.31	59.50	Complies
12	10R	Н	17.50	500.00	28.22	29.82	Complies
13	20R	5D	5.00	500.00	12.87	13.60	Complies
14	10R	5D	10.00	500.00	25.57	27.02	Complies
15	V	5D	35.00	500.00	43.38	45.84	Complies
16	10L	5D	10.00	500.00	27.79	29.36	Complies
17	20L	5D	5.00	500.00	13.71	14.49	Complies
18	5L	10D	10.00	500.00	26.76	28.27	Complies
19	5R	10D	10.00	500.00	25.40	26.84	Complies
20	All Directions Min		0.30		1.12	1.18	Complies
21	All Direct	tions Max		500.00	65.34	69.04	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

> Sample No. 2, normal mode, 22*LEDs lit together Tested voltage: 13.5V

No.	Point of the		Limit	s [cd]	Measured	Conclusion	
NO.	measu	rement	Min.	Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	10.00	500.00	29.19	30.92	Complies
2	5R	10U	10.00	500.00	30.55	32.36	Complies
3	20R	5U	5.00	500.00	18.32	19.41	Complies
4	10R	5U	10.00	500.00	28.98	30.70	Complies
5	V	5U	35.00	500.00	47.71	50.54	Complies
6	10L	5U	10.00	500.00	27.20	28.81	Complies
7	20L	5U	5.00	500.00	13.53	14.33	Complies
8	10L	Н	17.50	500.00	28.66	30.36	Complies
9	5L	Н	45.00	500.00	57.83	61.26	Complies
10	н	V	50.00	500.00	64.15	67.95	Complies
11	5R	Н	45.00	500.00	59.63	63.16	Complies
12	10R	Н	17.50	500.00	28.84	30.55	Complies
13	20R	5D	5.00	500.00	15.04	15.93	Complies
14	10R	5D	10.00	500.00	27.87	29.52	Complies
15	V	5D	35.00	500.00	45.71	48.42	Complies
16	10L	5D	10.00	500.00	26.09	27.64	Complies
17	20L	5D	5.00	500.00	11.29	11.96	Complies
18	5L	10D	10.00	500.00	24.69	26.15	Complies
19	5R	10D	10.00	500.00	25.79	27.32	Complies
20	All Direc	tions Min	0.30		1.06	1.12	Complies
21	All Direct	tions Max		500.00	64.79	68.63	Complies

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Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



No.	Point of the		the Limits [cd]		Measured	Conclusion	
NO.	measu	measurement		Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	10.00	500.00	27.55	28.91	Complies
2	5R	10U	10.00	500.00	26.13	27.42	Complies
3	20R	5U	5.00	500.00	12.83	13.46	Complies
4	10R	5U	10.00	500.00	25.85	27.13	Complies
5	V	5U	35.00	500.00	40.31	42.30	Complies
6	10L	5U	10.00	500.00	28.79	30.21	Complies
7	20L	5U	5.00	500.00	14.49	15.20	Complies
8	10L	Н	17.50	500.00	27.41	28.76	Complies
9	5L	Н	45.00	500.00	52.13	54.70	Complies
10	н	V	50.00	500.00	56.35	59.13	Complies
11	5R	Н	45.00	500.00	51.53	54.07	Complies
12	10R	Н	17.50	500.00	25.79	27.06	Complies
13	20R	5D	5.00	500.00	11.63	12.20	Complies
14	10R	5D	10.00	500.00	22.92	24.05	Complies
15	V	5D	35.00	500.00	39.13	41.06	Complies
16	10L	5D	10.00	500.00	24.78	26.00	Complies
17	20L	5D	5.00	500.00	12.48	13.10	Complies
18	5L	10D	10.00	500.00	23.95	25.13	Complies
19	5R	10D	10.00	500.00	23.01	24.15	Complies
20	All Direc	tions Min	0.30		0.93	0.98	Complies
21	All Direc	tions Max		500.00	58.62	61.51	Complies

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Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



No.	Point of the		Limit	ts [cd]	Measured	Conclusion	
NO.	measu	measurement		Max.	After 30 min	After 1 min	Conclusion
1	5L	10U	10.00	500.00	26.23	27.33	Complies
2	5R	10U	10.00	500.00	27.43	28.59	Complies
3	20R	5U	5.00	500.00	16.23	16.91	Complies
4	10R	5U	10.00	500.00	25.99	27.08	Complies
5	V	5U	35.00	500.00	42.75	44.55	Complies
6	10L	5U	10.00	500.00	24.64	25.68	Complies
7	20L	5U	5.00	500.00	12.26	12.78	Complies
8	10L	Н	17.50	500.00	25.75	26.83	Complies
9	5L	Н	45.00	500.00	52.70	54.92	Complies
10	н	V	50.00	500.00	57.69	60.12	Complies
11	5R	Н	45.00	500.00	53.92	56.19	Complies
12	10R	Н	17.50	500.00	26.28	27.39	Complies
13	20R	5D	5.00	500.00	13.65	14.22	Complies
14	10R	5D	10.00	500.00	25.22	26.28	Complies
15	V	5D	35.00	500.00	41.47	43.22	Complies
16	10L	5D	10.00	500.00	23.56	24.55	Complies
17	20L	5D	5.00	500.00	10.19	10.62	Complies
18	5L	10D	10.00	500.00	21.98	22.91	Complies
19	5R	10D	10.00	500.00	23.52	24.51	Complies
20	All Direc	tions Min	0.30		0.97	1.01	Complies
21	All Direc	tions Max		500.00	59.03	61.52	Complies

Technical Service appointed by

Authority by San Marino

Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



UN R148 5.6.11 For direction indicator lamps of sequential activation of light source(s):

- (a) Each light source, after its activation, remains lit until the end of the ON cycle;
- (b) The sequence of activation of the light sources produces a signal which proceeds in a uniform progressive manner from inboard towards the outboard edge of the light emitting surface; (c) It is one signal with no interruption and no vertical oscillations (e.g. not more than one change of direction along the vertical axis). The distance between two adjacent / tangential distinct parts of the light emitting surface of the sequential direction indicator do not exceed 50mm, when measured perpendicularly to the reference axis, instead of the values defined in paragraph 5.6.2. of UN Regulation 53. These interruptions of the signal do not create any overlap in the vertical axis between the different parts, from inboard towards the outboard of the vehicle, and are not be used for any other lighting or light signalling functions;
- (d) The variation shall finish no more than 200ms after the beginning of the ON cycle;
- (e) The orthogonal projection of the light emitting surfaces of the direction indicator in the direction of the axis of reference is circumscribed by a rectangle on a plane normal to the axis of reference and having its longer sides parallel to the H-plane. The ratio of the horizontal to the vertical sides is not less than 1.7. Compliance to the conditions mentioned above is verified in flashing mode.

Applicable and Conform / Not Applicable



Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



4.4 Reversing lamps (Symbol AR)

Applicable / Not Applicable

UN R148 The light emitted by each of the two lamps supplied meets the 5.7.1 requirements in Table below:

Applicable and Conform / Not Applicable

	Minimum	Maximum luminous intensity in any direction (values in cd)					
	luminous intensity in H-V (values in cd)	in or above the h plane	below the h plane, down to 5°D	below 5°D			
Reversing lamps	80	300	600	8000			

UN R148 In every other direction of measurement shown in paragraph 2.5. 5.8.2 of Annex 3, the luminous intensity shall be not less than the minima specified in that annex.

Conform / Not Conform

However, in the case where the reversing lamp is intended to be installed on a vehicle exclusively in a pair of devices, the photometric intensity may be verified only up to an angle of 30° inwards where a photometric value of at least 25 cd shall be satisfied.

This condition shall be clearly explained in the application for approval and relating documents.

Moreover, in the case where the type approval will be granted applying the condition above, a statement in paragraph 9.1.3. of the communication form (see Annex 1) will inform that the device shall only be installed in a pair.

Applicable and Conform / Not Applicable

Applicable and Conform / Not Applicable

UN R148 The colour of the light emitted shall be white.

5.8.3

Conform / Not Conform



Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



Photometric test results

Sample No. 1, normal mode, 3*LEDs lit together Tested voltage: 13.5V

No.	Point of the			:s [cd]	Mea	Measured values [cd]			
NO.	measu	rement	Min.	Max.	After Stability	After 10 min	After 1 min	Conclusion	
1	10L	10U	10.00	300.00	42.51	43.67	45.12	Complies	
2	V	10U	15.00	300.00	50.18	51.55	53.26	Complies	
3	10R	10U	10.00	300.00	61.80	63.49	65.60	Complies	
4	45R	5U	15.00	300.00	37.28	38.30	39.57	Complies	
5	10R	5U	20.00	300.00	130.01	133.56	138.00	Complies	
6	V	5U	25.00	300.00	128.16	131.66	136.03	Complies	
7	10L	5U	20.00	300.00	90.95	93.43	96.54	Complies	
8	30L	Н	25.00	300.00	48.40	49.72	51.37	Complies	
9	10L	Н	50.00	300.00	98.58	101.27	104.63	Complies	
10	V	Н	80.00	300.00	131.23	134.81	139.29	Complies	
11	10R	Н	50.00	300.00	126.82	130.28	134.61	Complies	
12	30R	Н	25.00	300.00	64.69	66.45	68.66	Complies	
13	45R	Н	15.00	300.00	28.31	29.08	30.05	Complies	
14	45R	5D	15.00	600.00	26.80	27.53	28.45	Complies	
15	30R	5D	25.00	600.00	47.20	48.49	50.10	Complies	
16	10R	5D	50.00	600.00	83.76	86.05	88.90	Complies	
17	V	5D	80.00	600.00	91.91	94.42	97.56	Complies	
18	10L	5D	50.00	600.00	77.33	79.44	82.08	Complies	
19	30L	5D	25.00	600.00	46.46	47.73	49.31	Complies	
20	Belo	w 5D		8000.00	142.09	145.97	150.82	Complies	
21	Above	HH line		300.00	140.65	144.49	149.29	Complies	
22		H line ve 5D		600.00	94.32	96.89	100.11	Complies	

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



No.	Point of the		Limit	ts [cd]	Mea	sured values [c	d]	Conclusion
INO.	measu	rement	Min.	Max.	After Stability	After 10 min	After 1 min	Conclusion
1	10L	10U	10.00	300.00	43.01	44.41	46.45	Complies
2	V	10U	15.00	300.00	39.64	40.93	42.81	Complies
3	10R	10U	10.00	300.00	30.42	31.41	32.85	Complies
4	10R	5U	20.00	300.00	55.78	57.59	60.24	Complies
5	V	5U	25.00	300.00	79.07	81.64	85.39	Complies
6	10L	5U	20.00	300.00	92.41	95.41	99.80	Complies
7	45L	5U	15.00	300.00	35.37	36.52	38.20	Complies
8	45L	Н	15.00	300.00	35.59	36.75	38.44	Complies
9	30L	H	25.00	300.00	72.31	74.66	78.09	Complies
10	10L	H	50.00	300.00	122.96	126.96	132.79	Complies
11	V	Н	80.00	300.00	114.80	118.53	123.98	Complies
12	10R	Н	50.00	300.00	81.97	84.63	88.52	Complies
13	30R	Н	25.00	300.00	44.30	45.74	47.84	Complies
14	30R	5D	25.00	600.00	41.04	42.37	44.32	Complies
15	10R	5D	50.00	600.00	75.21	77.65	81.22	Complies
16	V	5D	80.00	600.00	99.12	102.34	107.05	Complies
17	10L	5D	50.00	600.00	105.20	108.62	113.61	Complies
18	30L	5D	25.00	600.00	60.58	62.55	65.42	Complies
19	45L	5D	15.00	600.00	30.62	31.61	33.07	Complies
20	Belo	w 5D		8000.00	140.78	145.35	152.04	Complies
21	Above	HH line		300.00	134.67	139.05	145.44	Complies
22		H line ve 5D		600.00	107.62	111.12	116.23	Complies

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



5. Other information

Jiangsu Huachen Vehicle Inspection Co., Ltd. Place of inspection: Xihuan Road, Xinqiao, Danbei, Danyang, Jiangsu, China

Date of inspection: 15/08/2024

Junior Inspector Senior Inspector (if applicable) Technical service representative(s): Ms. Li Dan N/A

Manufacturer's representative: N/A

Remarks: N/A

5.1 **Appendix**

- List of modifications 1.
- Test Photo (s) 2.
- List of main equipment 3.

Enclosures 5.2

Information Folder

DY-MX5-2401-S-00 04/08/2024

info@ats-group.org

Inspection Report	: No.:	ATS-SM-IR-148-14578

Of: 27/08/2024



Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.



6. Statement of conformity

The information document as given in paragraph 0.4 and the type described there are in compliance with the test specification mentioned above.

With regard to the required level of performance to be achieved, the tested items were representative for the type to be approved and cover all variants / versions described in the information folder

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025:2005 and

EN ISO/IEC 17020 / R148-00 ECE/UN.

The tested object complies / not complies with the prescriptions of the R148-00 ECE/UN

The Inspection report comprises pages 1 to 32.

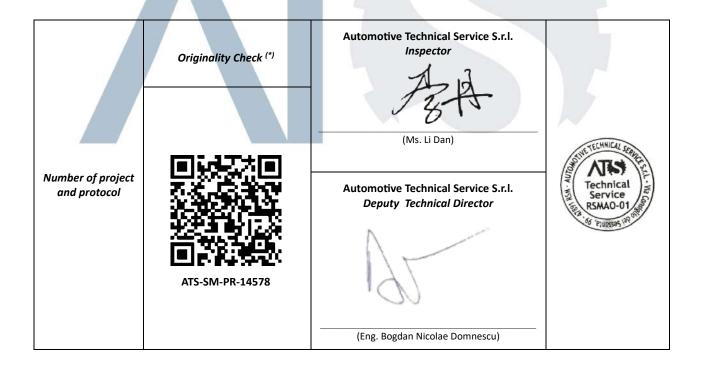
The test results relates only to the product tested.

I shall not be reproduced except in full, without written approval of the Technical Service.



Dogana, Repubblica di San Marino,

27/08/2024



(*) To check the originality of documents, scan the QR Code or connect to the site https://www.ats.sm/originality-control-atp-adr-tyapp/ and follow the instruction in it.



Of: 27/08/2024



DY-MX5-2401-S Type:

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

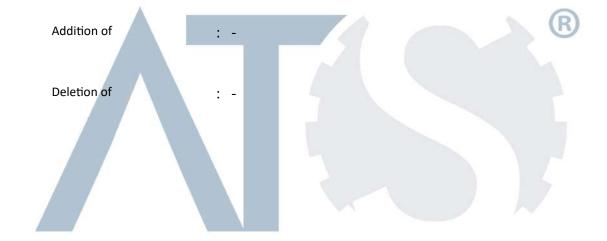
Appendix 1

List of modifications Applicable / Not Applicable Appendix 1

More details for application of: Date :

Correction of

Modification of



AUTOMOTIVE TECHNICAL SERVICE S.r.I.

47891 Dogana - Repubblica di San Marino

Via Consiglio dei Sessanta, 99

info@ats-group.org

Of: 27/08/2024

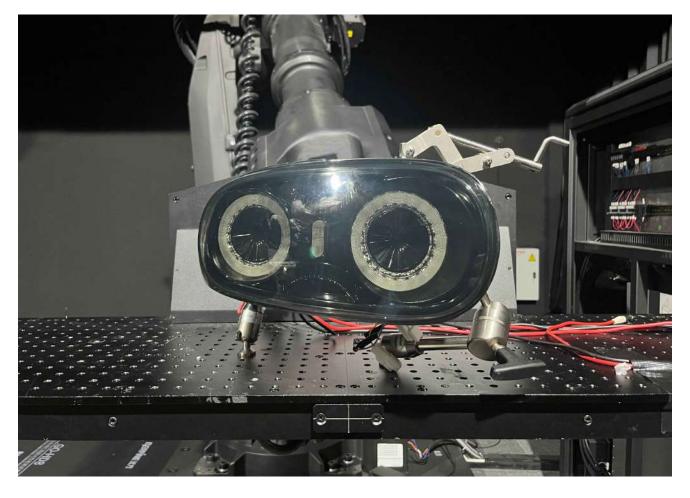
DY-MX5-2401-S Type:

Guangzhou Chiku Car Lights Co., Ltd. Manufacturer:



Appendix 2

Test Photo(s) Applicable / Not Applicable Appendix 2



Of: 27/08/2024

Type: DY-MX5-2401-S

Manufacturer: Guangzhou Chiku Car Lights Co., Ltd.

Appendix 3

List of main equipment Applicable / Not Applicable Appendix 3

No.	Name	Туре	Serial no.	Calibration due
1	Automotive and signal goniophotometer	GO-HD8	CHCML070	2025-03-29
2	High precision and fast spectral radiometer	HAAS-2000	CHCML038-1	2025-06-12

All the instruments have been calibrated and are in the period of validity.



Technical Service appointed by

Authority by San Marino

Guangzhou Chiku Car Lights Co., Ltd. Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng District, Guangzhou

August 4, 2024

Dear Sirs,

We would like to apply for the type approval according to ECE.

Function	ECE approval number
Rear direction indicator lamp	E57*148R00/05*XXXX*00
Stop lamp	E57*148R00/05*XXXX*00
Rear position lamp	E57*148R00/05*XXXX*00
Reversing lamp	E57*148R00/05*XXXX*00

Trade name or mark	:	(ARCHAIC
Туре	:	DY-MX5-2401-S
Name and address of manufacturer	:	Guangzhou Chiku Car Lights Co., Ltd. Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng District, Guangzhou

We confirm that the application mentioned above has not been submitted to any other EC member state, nor has any other member state granted a corresponding approval.

Sincerely



Information document No.: DY-MX5-2401-S-00

First application date : August 4, 2024

1. Specification data

Туре		DY-MX5-2401-S					
		Rear group lamp					
Function		Rear direction indicator lamp	Stop lamp	Rear position lamp	Reversing lamp		
	Color	Amber	Red	Red	White		
Datad	Voltage	12V	12V	12V	12V		
Rated	Wattage	7.5W	11.7W	2.8W	0.8W		
Application Regulation ECE		R148.00 Cat.2a	R148.00 Cat.S1	R148.00 Cat.R1	R148.00 AR		
G .	C1: 1 /	22*LEDs 44*LEDs 3*LEDs					
Category	of light source	Non-replaceable light source					
	Voltage/Wattage	Marked on housing					
Location of marking	Trade mark	(ARCHAIC					
		Marked on housing					
	Approval mark		Marke	d on lens			

2. Construction and material

Construction	Material	Remarks
Lens	PMMA	Colour: Tawny
Housing	ABS	Colour: Black
Electrical Wiring	Copper covered with insulation	

Guangzhou Chiku Car Lights Co., Ltd.

Area B, Floor 3, No.5 (Workshop 2) South Xinhe Road, Baishui Village, Ningxi Street, Zengcheng

District, Guangzhou

4. Name and address of the assembly plant

3. Name and address of manufacturer :

See 3.

5. Name and address of the manufacturer's representative

: N/A

Information document No.: DY

DY-MX5-2401-S-00

First application date :

August 4, 2024

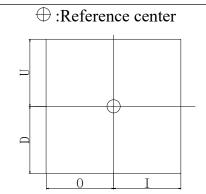
6: Apparent surface

U= Upper limit

D= Down limit

I= Inside limit

O= Outside limit

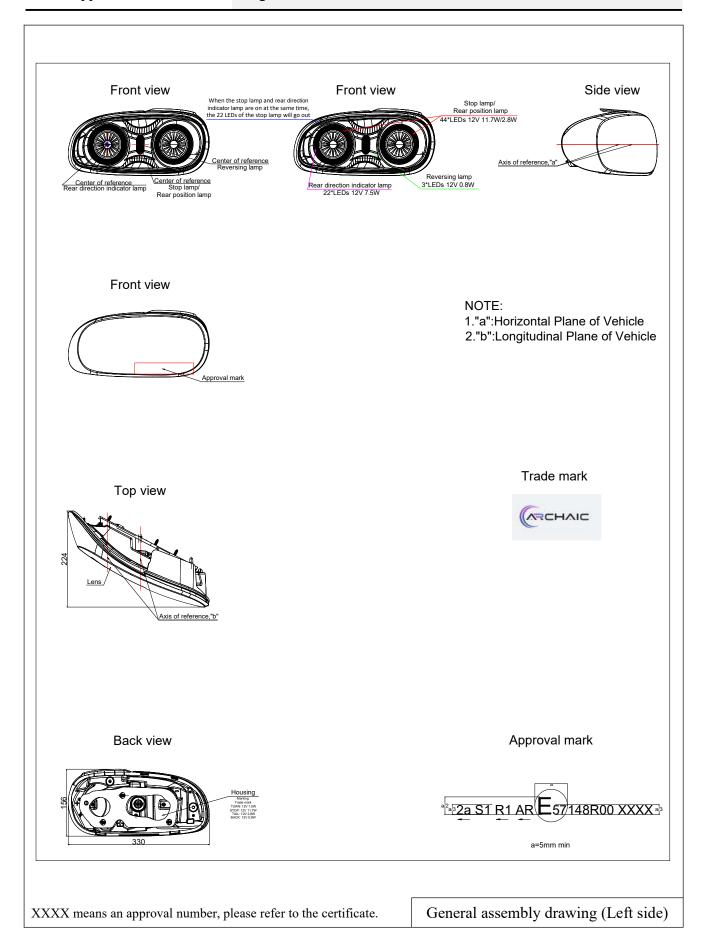


Unit: mm

Function	Limit (O)	Limit (I)	Limit (U)	Limit (D)
Rear direction indicator lamp	44	44	46	46
Stop lamp	121	123	47	46
Rear position lamp	121	123	47	46
Reversing lamp	7	7	19	19

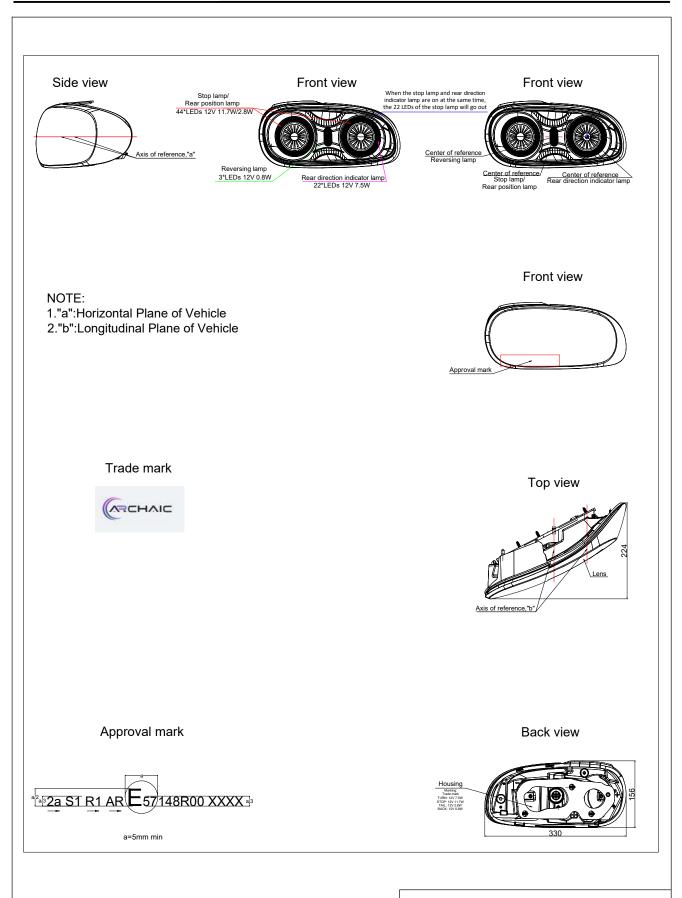
Information document No.: DY-MX5-2401-S-00

First application date : August 4, 2024



Information document No.: DY-MX5-2401-S-00

First application date: August 4, 2024



XXXX means an approval number, please refer to the certificate.

General assembly drawing (Right side)

Information document No.:

DY-MX5-2401-S-00

First application date:

August 4, 2024

