



Auto Service

Test report No.: 21-00290-CX-SHA-00
Manufacturer: Guangzhou Loyo Electronic Technology Co.,Ltd.
Type: LY-BMF800-001

Test Report

No.: 21-00290-CX-SHA-00

Test of a type of component
with regard to

UN/ECE Regulation No. 50

including all amendments up to
supplement 00 to the 01 series of amendments

Approval subject:
Front position lamp

Approval status		
<input checked="" type="checkbox"/>	Granting of a type approval	
<input type="checkbox"/>	Extension/correction to type approval no.	N/A



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I. General

Make (trade name of manufacturer) : LY

Type : LY-BMF800-001

Variants : N/A

Means of identification of type : By digits and letters

By category of lamp : Front position lamp

Number and category(ies) of light source(s) : 26*LEDs

Colour of light emitted : White

Light source module : N/A

Light source module specific identification code : N/A

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~~

Being part of the lamp : Yes

Being not part of the lamp : No

Input voltage(s) supplied by an electronic light source control gear/
variable intensity control : 12V

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



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Only for limited mounting height of : No
equal to or less than 750 mm above
the ground

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

Front position lamp : No
Rear position lamp : No
Stop lamp : No

Sequential activation of light sources : N/A
(see paragraph 6.8. of this Regulation)

Name and address of manufacturer : Guangzhou Loyo Electronic Technology
Co.,Ltd.
102,Building A,No.1 Yiheng Road,Qinghu
Caitian North Street,Junhe Street,Baiyun
District, Guangzhou,Guangdong
510000P.R.China

Address of assembly plant : Same as above

Location of the approval mark : On the outer lens

If applicable, name and address of the : N/A
manufacturer's representative

II. Test results

Refer to the Annex II

III. Enclosures

Information folder No. LY-BMF800-001-00 dated 2021-01-26 (YYYY-MM-DD)



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IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. The worst-case was selected in accordance with document "Requirements for Test Reports (AS-PB-T-02)".

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TÜV SÜD Auto Service GmbH is designated as Technical Service by:

Approval authority	Country	Registration-number
Kraftfahrt-Bundesamt (KBA)	Germany	KBA-P 00100-10
Vehicle Certification Agency (VCA)	United Kingdom	VCA-TS-006
Approval Authority of the Netherlands (RDW)	The Netherlands	RDWT-082-xx
National Standards Authority of Ireland (NSAI)	Ireland	Technical Service Number: 49
Société Nationale de Certification et d'Homologation. (SNCH)	Luxembourg	13/B(g)

München, 2021-02-04
(yyyy-mm-dd)



Henry Chen



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Annex I Reason of Extension

Correction of : N/A

Modification of : N/A

Addition of : N/A

Deletion of : N/A



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Annex II Test results

1. Test conditions

- 1.1. Technical data of the test samples : Two samples were tested.
Sample No. 1 and sample No. 2.
For information about the form of the lamp, the position of the reference point and the reference axis, see information document.
- 1.2. Test procedures used : According to ECE Regulation No.: 50.01.
- 1.3. Measuring and test equipment : Full automatic photometric test system for automobile lamps
LMT Lichtmesstechnik GmbH Berlin
Type GO H1660

2. Test results

2.1. General Specifications

The devices have been 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 this Regulation.



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2.2. Intensity of light emitted

2.2.1. Front position lamp

2.2.1.1. Sample No. 1, normal mode, 26*LEDs lit together, test voltage 13.5V.

No.	Point of the measurement		Limits [cd]		Measured values [cd]		Conclusion
			Min.	Max.	30 minutes	1 minute	
1	5L	10U	0.80	140.00	29.73	29.29	Complies
2	5R	10U	0.80	140.00	33.06	32.58	Complies
3	20R	5U	0.40	140.00	23.76	23.41	Complies
4	10R	5U	0.80	140.00	44.04	43.39	Complies
5	H	5U	2.80	140.00	52.20	51.44	Complies
6	10L	5U	0.80	140.00	36.69	36.15	Complies
7	20L	5U	0.40	140.00	17.92	17.66	Complies
8	10L	V	1.40	140.00	47.69	46.99	Complies
9	5L	V	3.60	140.00	60.60	59.71	Complies
10	H	V	4.00	140.00	68.26	67.26	Complies
11	5R	V	3.60	140.00	66.17	65.20	Complies
12	10R	V	1.40	140.00	55.81	54.99	Complies
13	20R	5D	0.40	140.00	27.78	27.37	Complies
14	10R	5D	0.80	140.00	56.15	55.33	Complies
15	H	5D	2.80	140.00	70.08	69.05	Complies
16	10L	5D	0.80	140.00	49.42	48.70	Complies
17	20L	5D	0.40	140.00	22.51	22.18	Complies
18	5L	10D	0.80	140.00	50.76	50.02	Complies
19	5R	10D	0.80	140.00	53.83	53.04	Complies
20	All Directions Min		0.05	-	0.18	0.18	Complies
21	All Directions Max		-	140.00	71.97	70.92	Complies



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2.2.1.2. Sample No. 2, normal mode, 26*LEDs lit together, test voltage 13.5V.

No.	Point of the measurement		Limits [cd]		Measured values [cd]		Conclusion
			Min.	Max.	30 minutes	1 minute	
1	5L	10U	0.80	140.00	29.55	27.06	Complies
2	5R	10U	0.80	140.00	32.81	30.04	Complies
3	20R	5U	0.40	140.00	23.25	21.29	Complies
4	10R	5U	0.80	140.00	44.11	40.39	Complies
5	H	5U	2.80	140.00	52.58	48.14	Complies
6	10L	5U	0.80	140.00	36.21	33.15	Complies
7	20L	5U	0.40	140.00	17.56	16.08	Complies
8	10L	V	1.40	140.00	46.40	42.48	Complies
9	5L	V	3.60	140.00	59.66	54.62	Complies
10	H	V	4.00	140.00	67.88	62.15	Complies
11	5R	V	3.60	140.00	65.61	60.07	Complies
12	10R	V	1.40	140.00	55.23	50.57	Complies
13	20R	5D	0.40	140.00	26.96	24.68	Complies
14	10R	5D	0.80	140.00	54.39	49.80	Complies
15	H	5D	2.80	140.00	67.32	61.64	Complies
16	10L	5D	0.80	140.00	47.00	43.03	Complies
17	20L	5D	0.40	140.00	21.49	19.68	Complies
18	5L	10D	0.80	140.00	47.57	43.55	Complies
19	5R	10D	0.80	140.00	50.97	46.67	Complies
20	All Directions Min		0.05	-	0.09	0.08	Complies
21	All Directions Max		-	140.00	70.63	64.67	Complies



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2.2.1.3. Sample No. 1, failed mode, 23*LEDs lit together, test voltage 13.5V.

No.	Point of the measurement		Limits [cd]		Measured values [cd]		Conclusion
			Min.	Max.	30 minutes	1 minute	
1	5L	10U	0.80	140.00	30.06	30.09	Complies
2	5R	10U	0.80	140.00	33.43	33.47	Complies
3	20R	5U	0.40	140.00	24.05	24.08	Complies
4	10R	5U	0.80	140.00	44.96	45.01	Complies
5	H	5U	2.80	140.00	53.32	53.38	Complies
6	10L	5U	0.80	140.00	36.94	36.98	Complies
7	20L	5U	0.40	140.00	17.90	17.92	Complies
8	10L	V	1.40	140.00	47.70	47.75	Complies
9	5L	V	3.60	140.00	61.18	61.25	Complies
10	H	V	4.00	140.00	69.73	69.81	Complies
11	5R	V	3.60	140.00	67.87	67.95	Complies
12	10R	V	1.40	140.00	57.25	57.32	Complies
13	20R	5D	0.40	140.00	28.69	28.72	Complies
14	10R	5D	0.80	140.00	57.93	58.00	Complies
15	H	5D	2.80	140.00	71.30	71.38	Complies
16	10L	5D	0.80	140.00	49.06	49.12	Complies
17	20L	5D	0.40	140.00	22.14	22.17	Complies
18	5L	10D	0.80	140.00	50.85	50.91	Complies
19	5R	10D	0.80	140.00	55.22	55.28	Complies
20	All Directions Min		0.05	-	0.09	0.09	Complies
21	All Directions Max		-	140.00	73.57	73.65	Complies



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2.3. Colour - White

Sample	Measured values		Limits
	x	y	W12 green boundary: $y = 0.150 + 0.640 x$ W23 yellowish green boundary: $y = 0.440$ W34 yellow boundary: $x = 0.500$ W45 reddish purple boundary: $y = 0.382$ W56 purple boundary: $y = 0.050 + 0.750 x$ W61 blue boundary: $x = 0.310$
No. 1	0.3272	0.3593	Complies
No. 2	0.3266	0.3589	Complies

2.4. Apparent surface:

Refer to manufacturer's information document: LY-BMF800-001-00

3. Specimen submitted to test on : 2021-01-26 (YYYY-MM-DD)
4. Place and date of the test : Dach Science and Technology
(Guangzhou) Co. Ltd
2021-01-29 (YYYY-MM-DD)