

ECE TYPE-APPROVAL CERTIFICATE



Communication concerning:² Approval granted

Approval extended
Approval refused
Approval withdrawn

Production definitely discontinued

of a type of device or system pursuant to UN Regulation No. 149

Class of the device: B Change index: θ

Approval No: *E24*149R00/06*0863*00*

Unique Identifier (UI) (If applicable) N/A

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

1. Trade name or mark of the device or system:

2. Manufacturer's name for the type of device or system: LY-HC02-7INCH

3. Manufacturer's name and address: Guangzhou Sup-light Electronic

Technology Co.,Ltd.

101, Building A, 1 Yiheng Road, Qinghu Caitian North Street, Junhe

Street, Baiyun District,

Guangzhou, Guangdong 510000 P.R. China

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

5. Submitted for approval on: 26.12.2023

6. Technical Service responsible for conducting approval tests: TÜV SÜD Auto Service GmbH,

Westendstraße 199, D-80686 München

7. Date of report issued by that service: 15.12.2023

8. Number of report issued by that service: 23-02985-CX-SHA-00

¹ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in the Regulation).

² Strike out what does not apply. CT-11-149/00-00



Approval No:

E24*149R00/06*0863*00

- 9. Brief description:
- 9.1. For Headlamps of Classes A and B¹
- 9.1.1. Category as described by the relevant marking:³
- 9.1.2. Number, category and kind of light source(s):
- 9.1.3. Reference luminous flux used for the principal passing-beam (lm):
- 9.1.4. Principal passing-beam operated at approximately (V):
- 9.1.5. Measures according to paragraph 4.12. of this Regulation:
- 9.1.6. Number and specific identification code(s) of LED module(s) and for each LED module a statement whether it is replaceable or not: *yes/no*¹
- 9.1.7. Number and specific identification code(s) of electronic light source Control gear(s)
- 9.1.8. Total objective luminous flux as described in paragraph 4.5.2.6. of this Regulation exceeds 2.00 10³ lumens: yes/no/does not apply¹
- 9.1.9. The adjustment of the cut-off has been determined at: 10 m/25 m/does not apply¹
 - The determination of the minimum sharpness of the "cut-off" has been carried out at: 10 m/25 m/does not apply¹
- 9.2. For headlamps of Class D

HC/PL, HC/PL, HC/PL

9.2.1. Headlamp/system submitted for approval as type:⁴

N/A

HR PL

N/A

N/A

N/A

N/A

N/A

N/A

N/A

20*LEDs for driving beam,

non-replaceable

Yes, non-replaceable

4 Indicate the appropriate marking selected from the list below:

```
DC, DC/PL, DR, DCR, DC/R, DC PL, DR PL, DCR DC/R
DC, DCR, DC/R, DC/, DC PL, DCR PL, DC/R DC/PL, PL, PL,

DC, DCR, DC/R, DC/, DC PL, DCR PL, DC/R DC/PL,

DC, DCR, DC/R, DC/, DC PL, DCR PL, DC/R DC/PL,
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³ Indicate the appropriate marking selected from the list below:



9.2.2.	The passing beam light source may/may not1 be lit simultaneously with the driving beam light source and/or another reciprocally incorporated headlamp.	N/A
9.2.3.	The rated voltage of the device is:	N/A
9.2.4.	Number, category and kind of light source(s):	N/A
9.2.4.	1. If more than one objective luminous flux value is specified:	N/A
	Objective luminous flux value used for the principal passing beam	N/A
9.2.4.	2. If more than one objective luminous flux value is specified:	N/A
	Objective luminous flux value used for the driving beam	N/A
9.2.5.	Trade name and identification number of separate ballast(s) or part(s) of ballast(s):	N/A
9.2.6.	The adjustment of the "cut-off" has been determined at $10 \text{ m}/25 \text{ m}.^{(2)}$	N/A
	The determination of the minimum sharpness of the "cut-off" has been carried out at $10~\text{m}/25~\text{m}.^1$	N/A
9.2.7.	Number and specific identification code(s) of LED module(s):	N/A
9.2.8.	Distributed lighting system with one common gas-discharge light source: Yes/No ¹	N/A
9.2.9.	Remarks (if any):	N/A
9.2.10	O. Measures according to paragraph 4.12. of this Regulation:	N/A
9.3. F	For AFS – Systems	
9.3.1.	Category as described by the relevant marking ⁵	N/A
9.3.2.	Number, category and kind of light source(s)	N/A
9.3.2.	1. Number and specific identification code(s) of LED module(s) and for each LED module a statement whether it is replaceable or not: yes/no ¹	N/A
9.3.2.	2. Number and specific identification code(s) of electronic light source control gear(s), if applicable	N/A
9.3.2.	3. Total objective luminous flux as described in paragraph 4.5.2.6. of This Regulation exceeds 2,000 lumen; yes/no ¹	N/A

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 9.3.3. (a) Indications according to paragraph 5.3.5.1. of this Regulation (which lighting unit(s) provide a "cut-off" as defined in Annex 5 of this Regulation, that projects into a zone extending from 6 degrees left to 4 degrees right and upwards from a horizontal line positioned at 0.8 degree down) (b) The adjustment of the "cut-off" has been determined at 10 m / 25 m¹ (c) The determination of the minimum sharpness of the "cut-off" has been carried out at 10 m / 25 m¹ 					
9.3.4. The vehicle(s) for which the system is intended as original equipment	N/A				
9.3.5. Whether approval is sought for a system which is not intended to be included as part of the approval of a vehicle type according to UN Regulation No. 48: yes/no ¹	N/A				
9.3.5.1. If in the affirmative: information sufficient to identify the vehicle(s) for which the system is intended	N/A				
9.3.6. Indications according to paragraph 5.3.5.2. of this Regulation (which class E passing beam mode(s), if any, comply with a "data set" of Table 14 of this Regulation)					
9.3.7. Whether approval is sought for a system intended to be installed on vehicles only, which provide means for a stabilization/limitation of the system's supply: yes/no ¹					
9.3.8. The adjustment of the "cut-off" has been determined at $10\ m/25\ m.^1$					
The determination of the minimum sharpness of the "cut-off" has been Carried out at $10~\text{m}/25~\text{m.}^1$					
9.3.9. The system is designed to provide passing beams of: ⁶					
9.3.9.1. Class C \square Class V \square Class E \square Class W \square					
9.3.9.2. With the following mode(s), identified by the designation(s), if it applies Mode No. C Mode No. V Mode No. E Mode No. W Mode No. C Mode No. V Mode No. E Mode No. W Mode No. C Mode No. V Mode No. E Mode No. W	es ¹⁴				

⁵ Indicate the appropriate marking as foreseen according to this Regulation for each installation unit or assembly of installation units.

⁶ Mark with an X where applicable.

⁷ To be extended if more modes are provided.

⁸ To be continued if more units are provided.



9.3.9.3. Where the lighting units indicated below are energized ^{5,7,8} for the mode No.						
(a) If no bend lighting applies:						
Left side		No.3 □	No.5 □	No.7 □	No. 9 □ No.11 □	
Right side	No.2 □		No.6 □	No.8 \square	No.10 □ No.12 □	
(b) If bend ligh				110.0	110.10 110.12	
Left side		No.3 🗆	No.5 \square	No.7 □	No. 9 □ No.11 □	
Right side	No.2 □		No.6 □	No.8 □	No.10 □ No.12 □	
(c) if bend light				N 7 -	N 0 - N 11 -	
Left side		No.3	_	No.7 □	No. 9 No.11	
Right side	No.2 ⊔	No.4 □	No.6 □	No.8 □	No.10 □ No.12 □	
9.3.9.4. The lighting using its neutral sta		ed below	are energ	ized, whe	n the system is in	
Left side	No.1 □	No.3 □	No.5 □	No.7 □	No. 9 □ No.11 □	
Right side	No.2 □	No.4 □	No.6 □	No.8 □	No.10 □ No.12 □	
ragiit side	110.2	110.1	110.0	110.0	110.10 🗆 110.12 🗀	
9.3.9.5. The lighting usits traffic cha	nge funct	ion ^{5, 6, 7}	are energ	ized, whe	n the system is in	
(a) If no bend l		•				
Left side	No.1 □	No.3 □	No.5 □	No.7 □	No. 9 □ No.11 □	
Right side	No.2 □	No.4 □	No.6 □	No.8 □	No.10 \square No.12 \square	
(b) If bend ligh	ting of cat	tegory 1 a	pplies:			
Left side	No.1 □	No.3 □	No.5 □	No.7 □	No. 9 □ No.11 □	
Right side	No.2 □	No.4 □	No.6 □	No.8 □	No.10 □ No.12 □	
(c) if bend light	ting of cat	egory 2 a	pplies:			
Left side	_	No.3		No.7 □	No. 9 □ No.11 □	
Right side		No.4 □		No.8 □	No.10 □ No.12 □	
8						
9.3.10. The system is designed to provide a main beam ^{5, 6, 7} :						
9.3.10.1. Yes □ No □						
9.3.10.2. With the following mode(s), identified by the designation(s), if it applies: Main beam mode No. M Main beam mode No. M Main beam mode No. M						
9.3.10.3. Where the li			d below as	re energiz	ed, for mode No.	
(a) If no bend l Left side	ignung ap No.1 □	No.3	No.5	No 7 🗆	No 0 - No 11 -	
		_	No.5 □	No.7 □	No. 9 \(\text{No.11} \(\text{No.12} \)	
Right side	No.2 □	No.4 □	No.6 □	No.8 □	No.10 □ No.12 □	
(b) If bend ligh			N T 7	N I 7 -	NI O - NI 11 -	
Left side	No.1 □	No.3	No.5 □	No.7 □	No. 9 \(\text{No.11} \(\text{D} \)	
Right side	No.2 □	No.4 □	No.6 □	No.8 □	No.10 □ No.12 □	

NSAI, 1 Swift Square, Northwood, Santry, Dublin 9, Ireland. Telephone: (+353+1) 807 3800, Facsimile: 01-807 3844



9.3.10.4	 The lighting units marked below are its neutral state^{6,8} 	e energized, who	en the system is in	
	Left side No.1 \(\square\) No.3 \(\square\) No Right side No.2 \(\square\) No.4 \(\square\) No			
9.3.10.5	•		the driving beam fo	or:
9.4. Fo	r headlamps of Classes AS, BS, CS, E	OS and ES1		
9.4.1. C	Category as described by the relevant	marking: ⁹		N/A
9.4.2. N	Number, category and kind of light sou	arce(s), if any:		N/A
	Number and specific identification cocachL ED module a statement whether	` '		N/A
	Number and specific identification cocontrol gear(s), if any:	le(s) of electron	ic light source	N/A
9.4.5. T	The determination of "cut-off" sharpne	ess yes / no ¹		N/A
I	f yes, it was carried out at 10 m / 25 n	n^1		
	Frade name and identification number pallast(s):	of separate ball	ast(s) or part(s) of	N/A
tl	The passing beam light source may/mathe driving beam light source and/or an aleadlamp.			N/A
	The minimum bank angle(s) to satisfy 5.4.5.2., if any	the requirement	of paragraph	N/A
S	Primary Driving Beam: yes / no ¹ Secondary Driving Beam: yes / no ¹ The Secondary Driving Beam shall on	ly he operated to	ogether with	N/A N/A
	passing beam or a primary driving be		Seemer with	N/A

⁹ Indicate the appropriate marking selected from the list below:

C-AS,	C- BS,	R-BS,	CR-BS,	C/-BS,	C/R-BS,
	C-BS PL,	R-BS PL,	CR-BS PL,	C/ -BS PL,	C/R-BS PL,
WC-CS,	WC-DS,	WR-CS	WR-DS,	WCR-CS,	WCR-DS,
WC/-CS,	WC/-DS,	WC/R-CS,	WC/R-DS,	WC-CS PL,	
WC-DS PL.	WR-CS PL.	WR-DS PL.	WCR-CS PL.	WCR-DS PL.	

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Q	5	For	front	$f_{\Omega \sigma}$	lamps	Class	F3
ッ.	.J.	Γ OI	пош	108	Tallibs	Class	$\Gamma \mathcal{I}$

9.5.1. Class as described by the relevant marking:	
(F3, F3/, F3PL, F3/PL)	N/A
9.5.2. Number, category and kind of light source(s):	N/A
9.5.3 LED module: yes/no ¹ and for each LED module a statement whether it is replaceable or not: yes/no ¹	N/A
9.5.4. LED module specific identification code:	N/A
9.5.5. Application of electronic light source control gear: 10 yes/no1	
Supply to the light source: Specification of the light source control gear: Input voltage: ¹¹ In the case of an electronic light source control gear not being part	N/A N/A N/A
of the lamp: Output signal specification:	N/A N/A
9.5.6. Colour of light emitted:	N/A
9.5.7. Luminous flux of the light source (see paragraph 4.5.2.6.) greater than 2,000 lumens: yes/no ¹	N/A
9.5.8. Luminous intensity is variable: yes/no ¹	N/A
9.5.9. The determination of the cut-off gradient (if measured) was carried out at $10\ m/25\ m^1$	N/A
9.6. For cornering lamps	
9.6.1. Number, category and kind of light source(s): ¹²	N/A
9.6.2. Voltage and wattage:	N/A

WC/CS PL,	WC/-DS PL,	WC/R-CS PL,	WC/R-DS PL,		
WC+-CS,	WC+-DS,	WC+R-CS,	WC+R-DS,	C+-BS,	C+R-BS,
WC+-CS PL,	WC+-DS PL,	WC+R-CS PL,	WC+R-DS PL,	C+-BS PL,	C+R-BS PL
WC-ES,	WR-ES,	WCR-ES,	WC/-ES,	WC/R-ES,	WC-ES PL,
WR-ES PL,	WCR-ES PL,	WC/-ES PL,	WC/R-ES PL		
WC+-ES,	WC+R-ES,	WC+-ES PL,	WC+R-ES PL		

¹⁰ The voltage specifications shall include the tolerances or voltage range as specified by the manufacturer and verified by this approval.

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¹¹ The parameters of the input voltage including duty cycle, frequency, pulse shape and peak voltage shall be included.



9.6.3. Light source module: yes/no ¹	N/A

9.6.4. Light source module specific identification code: N/A

9.6.5. Application of an electronic light source control gear:

(a) Being part of the lamp yes/no¹
(b) Being not part of the lamp yes/no¹

9.6.6. Input voltage supplied by an electronic light source control gear: N/A

9.6.7. Electronic light source control gear manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body):

9.6.8. Geometrical conditions of installation and relating variations, if any: *N/A*

10. Approval mark(s) position(s): On the lens

11. Reason(s) for extension of approval (if applicable): N/A

12. Approval granted / extended / refused / withdrawn¹ Granted

13. Place: **Dublin**

Kay Brene

14. Date: 19th February, 2024

15. Signature:



N/A

16. 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.

¹² For cornering lamps with non-replaceable light sources indicate the number and total wattage of the light sources used.



Index to the Information Package

Date	of issue:	19th February, 2024
Date	of latest amendment:	N/A
Reaso	on for extension/revision	N/A
1.	Additional conditions, and advisory	
	notes on legal alternatives	
2.	Test report(s)	
	- numbers(s):	23-02985-CX-SHA-00
	- date of issue:	15.12.2023
	- date of latest amendment:	N/A
3.	Information document	
	- numbers(s):	LY-HC02-7INCH-00
	- date of issue:	16.10.2023
	- date of latest amendment:	N/A
	Documentation:	14 pages



Appendix: Additional conditions, and advisory notes on legal alternatives

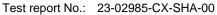
A: Additional conditions:

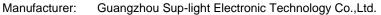
- 1. The lamp, Type LY-HC02-7INCH shall be marked as prescribed by the regulation.
- 2. Fitting instructions shall be supplied with each lamp, giving details of any limitations in the use of the lamp.
- 3. The lamp should be fitted in accordance with the fitting instructions.
- 4. The attached technical report, with any of its attachments, forms part of this Type Approval certificate.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. The duties imposed by the issuing of this certificate are not transferable. The legal protection of third parties is not affected by this certificate.
- 11. 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

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Test Report

No.: 23-02985-CX-SHA-00

Test of a type of component with regard to

UN/ECE Regulation No. 149

including all amendments up to supplement 6 to the 00 series

Approval subject:

Headlamps emitting an asymmetrical driving beam (Equipped with LEDs)

	Approval status					
Y	Granting of a type approval					
	Extension/correction to type approval no.	:				

Manufacturer: Guangzhou Sup-light Electronic Technology Co.,Ltd.

Type: LY-HC02-7INCH



I. General

Make (trade name of manufacturer) : LY

Type : LY-HC02-7INCH

Variants : N/A

Means of identification of type : By letters and digits, LY-HC02-7INCH

Category as described by the

relevant marking

: HR PL

Number, category and kind of light

source(s)

: 20*LEDs for driving beam, non-replaceable

Number and specific identification

code(s) of LED modules and for each LED module a statement whether it is

replaceable or not

: Yes, non-replaceable

The determination of 'cut-off'

sharpness

: N/A

If yes, it was carried out at : 10 m/25 m

Trade name and identification

number of separate ballast(s) or

part(s) of ballast(s)

: N/A

The passing beam light source may / may not be lit simultaneously with the driving beam light source and/or another reciprocally incorporated headlamp.

The minimum bank angle(s) to satisfy: N/A

the requirement of paragraph 5.4.5. if

any

Primary Driving Beam : Yes

Secundary Driving Beam : No

The Secondary Driving Beam shall only be operated together with a passing beam or a primary driving beam.

Manufacturer: Guangzhou Sup-light Electronic Technology Co.,Ltd.

LY-HC02-7INCH Type:



Name and address of manufacturer : Guangzhou Sup-light Electronic Technology

Co.,Ltd.

101, Building A, 1 Yiheng Road, Qinghu Caitian North Street, Junhe Street, Baiyun District, Guang-

zhou, Guangdong 510000 P.R. China

Address of assembly plant : Same as above

Location of the approval mark : On the lens

If applicable, name and address of

: N/A the manufacturer's representative

II. **Test results**

Refer to the Annex II

III. **Enclosures**

Annex I Reason of Extension Annex II Test Result Information folder No. LY-HC02-7INCH-00 dated 2023-10-16 (YYYY-MM-DD)

Manufacturer: Guangzhou Sup-light Electronic Technology Co.,Ltd.

Type: LY-HC02-7INCH



IV. Statement of conformity

The mentioned information folder and the type described therein are in accordance with the test basis mentioned above. Sampling plan or method result from the requirements of the test basis. The worst-case configuration was selected in accordance with process description "Requirements for Test Reports (AS-PB-T-02)". Valid decision rule in ac-cordance with ILAC G8:2019, 4.2.1: in question of meeting the limits the measurement uncertainty was ignored.

The manufacturer is responsible for the information (III.) and the test specimens provided by him. The test results relate only to the test specimens as received and mentioned (II.). The test specimens are representative for the type described (III.).

The test report may be reproduced and published in full and by the client only. It can be re-produced partially with the written permission of the test laboratory only.

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 s.a. (SNCH)	Luxembourg	13/B(g)
Swedish Transport Agency (STA)	Sweden	TT 0024





Type: LY-HC02-7INCH



Annex I Reason of Extension

Correction of : ---

Modification of : ---

Addition of : ---

Deletion of : ---

Manufacturer: Guangzhou Sup-light Electronic Technology Co.,Ltd.

Type: LY-HC02-7INCH



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. 149.00.

1.3. Measuring and test equipment : Full automatic photometric test system for auto-

mobile lamps

LMT Lichtmesstechnik GmbH Berlin

Type GO H1660

2. Test results

2.1. General Specifications : The headlamps have been made as to retain

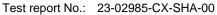
their prescribed photometric characteristics and to remain in good working order when in normal use, in spite of the vibrations to which they may

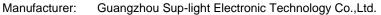
be subjected.

Headlamps have been give adequate

illumination without dazzle when emitting the passing-beam, and good illumination when

emitting the driving-beam.









2.2. Test record of the photometric measurements of the driving beam.

2.2.1. Sample No. 1, test voltage 13.2V.

l Na	Point of the	Limits [cd]		Measured	O a sa alivada sa	
No.	measurement	Minimum	Maximum	1 minute	After stability	Conclusion
1	lmax.	40500.00	215000.00	104595.19	99700.30	Complies
2	HV	0.8lmax.		104281.10	99400.91	Complies
3	H-5L	5100.00		26227.33	24999.93	Complies
4	H-2.5L	20300.00		65311.79	62255.30	Complies
5	H-2.5R	20300.00		69635.90	66377.05	Complies
6	H-5R	5100.00		30520.02	29091.73	Complies

2.2.2. Sample No. 2, test voltage 13.2V.

NI-	Point of the measurement	Limits [cd]		Measured		
No.		Minimum	Maximum	1 minute	After stability	Conclusion
1	lmax.	40500.00	215000.00	115524.13	108343.00	Complies
2	HV	0.8lmax.		114151.40	107055.60	Complies
3	H-5L	5100.00		31690.39	29720.47	Complies
4	H-2.5L	20300.00		69169.75	64870.07	Complies
5	H-2.5R	20300.00		76703.93	71935.91	Complies
6	H-5R	5100.00		26912.36	25239.45	Complies

Reference Mark (Imax / 4300): 25 *Average of the value for Sample No. 1 and Sample No. 2.

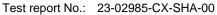
2.3. Stability of photometric performance of headlamp in operation.

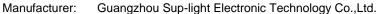
2.3.1. Clean headlamp – Sample No. 1.

		Point of the	Measured values			
No.	measurement	Value before	Value after	Discrepancy	Conclusion	
		operating (cd)	operating (cd)	(≤ 10%)		
	1	Driving beam: Imax.	99700.30	98547.31	1.16%	Complies

2.3.2. Dirty headlamp – Sample No. 1.

No.	Doint of the	Measured values				
	Point of the measurement	Value before operating (cd)	Value after operating (cd)	Discrepancy (≤ 10%)	Conclusion	
1	Driving beam: Imax.	98547.31	97811.66	0.75%	Complies	









2.4. Tests on plastic lens

- 2.4.1. Test report for plastic material of the lens attached to the manufacturer's information document.
- 2.4.2. Tests of the complete headlamp incorporating a lens of plastic material.
- 2.4.2.1. Test of adherence of coatings Sample No. 2.
 - No appreciable impairment of the gridded area Complies.

2.4.2.2. Resistance to mechanical deterioration of the lens surface - Sample No. 2.

No.	Point of the	Limits [cd]		Measured	Conclusion	
INO.	measurement	Minimum	Maximum	values [cd]	Conclusion	
1	HV	0.8* I _{max.} *0.9		106052.20	Complies	
2	Driving beam: I _{max.}	40500.00	215000.00	107327.53	Complies	

^{*} The result complies with the requirements prescribed in paragraph 2.6.1.2. of Annex 6 in this Regulation.

2.5. Test record of the colour

2.5.2. Driving beam - White

	N	leasured valu	ies	Limits
	Sample	х	у	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
After 1	No. 1	0.3134	0.3206	Complies
minute	No. 2	0.3144	0.3240	Complies
After	No. 1	0.3112	0.3174	Complies
stability	No. 2	0.3111	0.3191	Complies

2.6. Test record of LED modules

2.6.1. Test voltage 13.2V.

2.6.1.1. Red Content

	Limit	measured	Conclusion
Driving beam	$K_{red} \ge 0.05$	0.0770	Complies



Type: LY-HC02-7INCH



2.6.1.2. UV-radiation

	Limit	measured	Conclusion
Driving beam	$K_{UV} \leq 10^{-5} \text{ W/Im}$	0.35 × 10 ⁻⁶	Complies

2.6.1.3. Objective Luminous Flux

		Limit		Moosured	Conclusion
		Minimum	Maximum	Measured	Conclusion
	Driving beam			3179.53 lm	Complies

2.7. Apparent surface

Refer to manufacturer's information document: LY-HC02-7INCH-00

3. Specimen submitted to test on : 2023-10-16 (YYYY-MM-DD)

4. Place and date of the test : Dach Science and Technology(Guangzhou) Co.,

Ltd.

2023-11-28 to 2023-11-29 (YYYY-MM-DD)

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First application date : 2023-10-16

1. Specification data

Type	LY-HC02	2-7INCH		
Function	turn signal Lamp	Driving beam		
Emitted colour	Amber	White		
Rated Voltage	12V	12V		
Rated Wattage	12.7W	50.4W		
Applicable Regulation	No. R148.00 Cat.1b	No. R149.00 Class B		
Number and category of light source	12*LEDs non-replaceable	20*LEDs non-replaceable		
Trade mark	"LY" Marked on the housing			
Approval mark	Marked on the lens			
Remark	The application of an electronic light source control gears: being part of the lamp Input voltage to the electronic light source control gear: 12V			

2. Construction and material

Construction	Material	Remarks	
		Base material	
		Type: LS2-111	
		Kind of material:Lexan	
		Manufacturer:GE Bayer Silicones,NL-4600	
Outer Lens	Plastic (PC)	Bergen op Zoom	
		Coating	
		Type: UVHC3000	
		Manufacturer:GE Bayer Silicones,NL-4600	
		Bergen op Zoom	
Inner lens of turn signal lamp	Plastic (PC)	Yellow with pattern	
Inner lens of driving beam	Plastic (PC)	The upper part is clear without pattern, and lower part is clear with pattern	
Hausina	ADC12 (ALLOY)	Black	
Housing	AL	Silver	
Honeycomb decorative panel	Plastic (PC)	Black	
Electrical wiring	Copper covered with insulation		

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3. Name and address of manufacturer

: Guangzhou Sup-light Electronic Technology Co.,Ltd. 101,Building A, 1 Yiheng Road,Qinghu Caitian North

Street, Junhe Street, Baiyun District,

Guangzhou, Guangdong 510000 P.R.China

4. Name and address of assembly plant

Same as above

5.Name and address of representative of

manufacturer

Not applicable.

6. Apparent surface

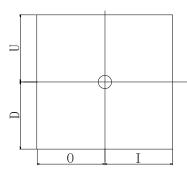
U= Upper limit

D= Down limit

I= Inside limit

O= Outside limit

⊕:Reference center



Apparent surface based on the

☐ Illuminating surface

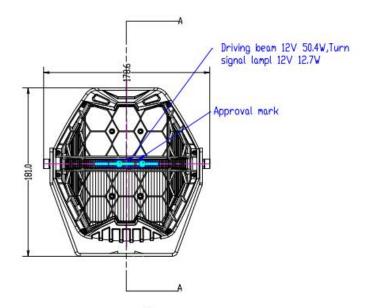
light-emitting surface (with outer lens)

Unit: mm

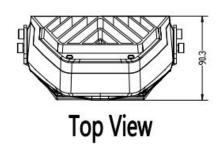
Function	Limit (O)	Limit (I)	Limit (U)	Limit (D)
Driving beam	60	60	60	60
Turn signal Lamp	60	60	4	4

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Lamp drawing

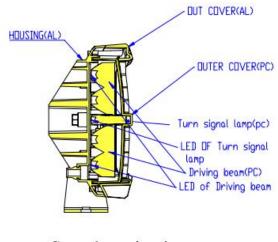


Front View

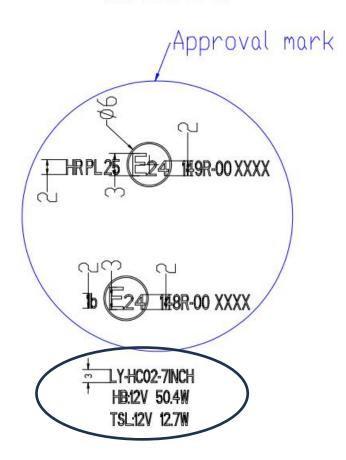




Back View

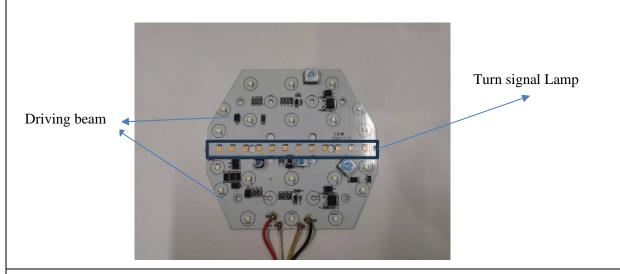


Section A-A

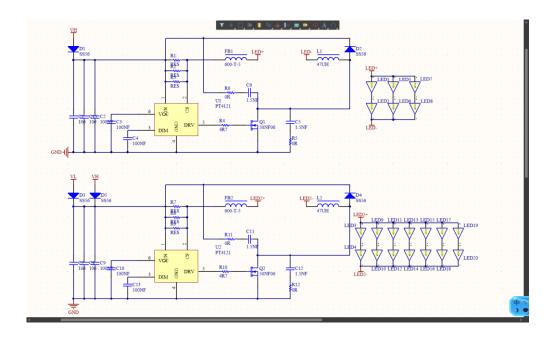


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Photo of LED module of Driving beam and Turn signal Lamp

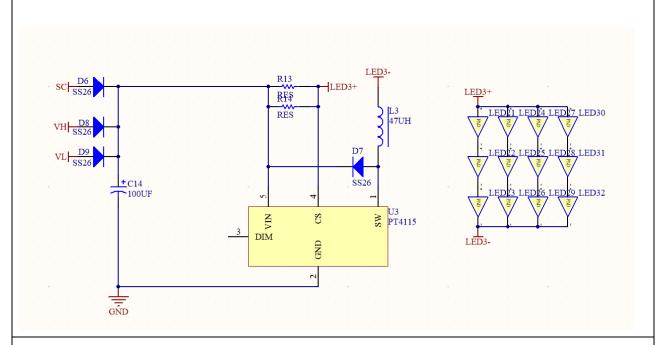


Circuit diagram of Driving beam



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Circuit diagram of Turn signal Lamp



PCB of Driving beam and Turn signal Lamp

