




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

Comunicazione
Communication

| | | |
|--|---|--|
|  | Concernente ^{2/} Concerning ^{2/} | Il rilascio dell'omologazione Approval granted L'estensione dell'omologazione <i>Approval extended</i> Il rifiuto dell'omologazione <i>Approval refused</i> La revoca dell'omologazione <i>Approval withdrawn</i> La cessazione definitiva della produzione <i>Production definitively discontinued</i> |
|--|---|--|

of a type of special warning lamp for motor vehicles, pursuant to Regulation No. 65

| | | | |
|---|--------------------------|--|-----------|
| Omologazione N. <i>Approval No.</i> | E57*65R00/11*0024 | Estensione N. <i>Extension No.</i> | 00 |
|---|--------------------------|--|-----------|

| | |
|--|---|
| Marchio di omologazione <i>Approval mark</i> | See Manufacturer Information Document No. LH1-00 |
|--|---|

- Special warning lamp
rotating/stationary flashing lamp/ directional flashing lamp/
complete bar/half bar/blue/amber/red ²
- Special warning lamp has:
Special warning lamp consist of:
one/two levels of intensity ²
one separate units.
- For special warning lamps having two levels of intensity,
indicate the system used to obtain increased intensity
at daytime.
See Manufacturer Information Document No. **LH1-00**
- Used light source
- category of filament lamp or; Not Applicable
- gas discharge light source or; Not Applicable

- | | |
|---|--|
| - LED or; | yes/ no ² or; 6* LEDs, Non-replaceable light source |
| Light source module: | yes/no ² |
| Light source module specific identification code: | Not Applicable |
| 5. Rated voltage of special warning lamp | DC 12/24 V |
| 6. Trade name or mark |  |
| 7. Manufacturer's name and address | Guangzhou Hobart Lights Limited No. 1 Chuangjia Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China, 510000 |
| 8. If applicable, name and address of manufacturer's representative | Not Applicable |
| 9. Submitted for approval on | 26/12/2023 |
| 10. Technical Service responsible for approval tests | AUTOMOTIVE TECHNICAL SERVICE S.r.l. Via Consiglio dei Sessanta, 99 47891 – DOGANA Repubblica di San Marino |
| 11. Date of report issued by that service | 26/12/2023 |
| 12. Number of report issued by that service | ATS-SM-IR-R65-08390 |
| 13. Approval: | GRANTED/REFUSED/EXTENDED/WITHDRAWN ² |
| 14. Reason(s) of extension (if applicable): | Not Applicable |
| 15. Place | DOGANA – Repubblica di San Marino |
| 16. Date | 09/01/2024 |
| 17. Signature |  |



Ing. Marco CONTI
Direttore Generale
General Director

18. The list of documents filed with the administration service which has granted approval and available on request is annexed to this communication.

(2) Strike out what does not apply.

| | | | |
|--|--|---|---|
| Allegato <i>Enclosure</i> | | | |
| Al certificato di omologazione ECE N. <i>To ECE approval certificate No.</i> | | E57*65R00/11*0024*00 | |
| Indice del fascicolo di omologazione <i>Index to the information package</i> | | | |
| Data <i>Date of issue</i> | 09/01/2024 | Data ultima modifica <i>Last amendment date</i> | -- |
| 1. | Clausole di garanzia e istruzioni sul diritto di presentare ricorso <i>Collateral clauses and instruction on right to appeal</i> | | |
| 2. | Rapporto(i) Finale di Ispezione N. <i>Inspection Report(s) No.</i> | ATS-SM-IR-R65-08390 | Data <i>Date</i> 26/12/2023 |
| 3. | Scheda informativa N. <i>Information document No.</i> | LH1-00 | Data <i>Date</i> 09/12/2023 |
| | | | Data ultima modifica <i>Last amendment date</i> -- |



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.*

Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2023



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Inspection Report

No. ATS-SM-IR-R65-08390

Rel. 00

Inspection concerning vehicles / components with regard to:

Uniform provisions concerning the approval of special warning lamps for power-driven vehicles and their trailers

performed according to

ECE Regulation No. 65

as last amended by

00 series of amendments

of the Economic Commission for Europe

| Approval status | |
|-----------------|-----------------------------|
| ECE | Number of approval |
| | E57*65R00/11*0024*00 |

Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2023



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

0. General information

0.1. Make (trade name of manufacturer):



0.2. Type: LH1

0.2.1. Variant(s): --

0.3. Name and address of manufacturer: Guangzhou Hobart Lights Limited
No. 1 Chuangjia Road, Baiyun District, Guangzhou
City, Guangdong Province, People's Republic of
China, 510000

0.3.1. Name and address of manufacturer's authorized
representative: NA

0.3.2. Production plant(s) address(es): No. 1 Chuangjia Road, Baiyun District, Guangzhou
City, Guangdong Province, People's Republic of
China, 510000

0.4. No. of the information document: LH1 Date: 09/12/2023

0.5. Position of the approval mark: Marked on Housing

0.6. Vehicle category(ies) L, M, N, O, and T

(or, if not applicable, vehicle categories which the
component(s) is (are) suitable for):

Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2023



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

1 Photometric specifications

- | | | |
|-------|--|--|
| 1.1 | Measurements of the photometric characteristics shall be taken at a distance of at least 25 m. | Conform / Not Conform |
| 1.2 | The angular diameter of the photoelectric receiver as seen from the special warning lamp shall be 10 minutes or arc maximum. | Conform / Not Conform |
| 1.3 | The response time of the photometric system shall be adequate to the rising time of the signal to be measured. | Conform / Not Conform |
| 1.4.0 | For special warning lamps having one level of intensity (class 1), the "by night" level shall apply. | Applicable / Not Applicable |
| 1.4.1 | For special warning lamps having two levels of intensity (class 2), measurements shall be carried out for each of the two levels. | Applicable / Not Applicable |
| 1.4.2 | If a filament lamp is used that shall be a standard filament lamp as provided for in Regulation No. 37 corresponding to a lamp of the category specified for the special warning lamp. | Applicable / Not Applicable |
| 1.5 | Light source conditions for test: | |
| 1.5.1 | Light source conditions for test are in according to Annex 5, Point 4 of Regulation ECE R65. | Conform / Not Conform |

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2022

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

2 Colour of the special warning lamp

2.1 The color of the special warning lamp is: Amber / ~~Blue~~ / Red

2.1.1 The trichromatic coordinates of light emitted through the filters used for special warning lamps shall lie within the following boundaries:

| Amber | Blue | Red |
|---|--|--|
| Limit towards green: $y \leq x - 0.120$ | Limit towards green: $y = 0.065 + 0.805 x$ | Limit towards purple: $y \geq 0.980 - x$ |
| Limit towards red: $y \geq 0.390$ | Limit towards white: $y = 0.400 - x$ | Limit towards yellow: $y \leq 0.335$ |
| Limit towards white: $y \geq 0.790 - 0.670 x$ | Limit towards purple: $y = 1.667x - 0.222$ | |

2.1.2 Colorimetric specifications

| Values Measured | | |
|-----------------|------------------|------------------|
| Amber | | |
| Sample 1 | x: 0.5778 | y: 0.4063 |
| Sample 2 | x: 0.5782 | y: 0.4064 |

3. Frequency, time and intensity of emitted light

3.1 The frequency, the “ON” time and the “OFF” time are measured in according to Annex 5, Point 7:

| | Colour blue, amber or red | | Colour: Amber |
|------------------|--|-------|----------------------|
| | Rotating system or flash light sources (Categories T and X) | | Measured value |
| Frequency f (Hz) | Max | 4.0 | 2.53 Hz |
| | Min | 2.0 | |
| “ON” time (s) | Max | 0.4/f | 0.1576 s |
| “OFF” time(s) | Min | 0.1 | 0.2279 s |

3.2 The effective luminous intensities in the reference axis for a directional flashing lamp (Category X) are in according to Annex 7, Point 7.3 of Regulation ECE R65:

| Category X | | | | | |
|---|-------------------------------|----------|--------|-------|-----|
| | | | Colour | | |
| | | | Blue | Amber | Red |
| Minimum value of the effective luminous intensity J(e), on the reference axis | H = 0° V = 0° | By day | 200 | 400 | 200 |
| | | By night | 100 | 200 | 100 |
| Maximum value of the effective luminous intensity J(e) in Amber | Inside H = ±10° V = ±4° | By day | 3000 | | |
| | | By night | 1500 | | |
| | Inside H = ±20° V = ±8° | By day | 1500 | | |
| | | By night | 600 | | |
| Outside the above areas | By day | 1000 | | | |
| | By night | 300 | | | |

Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2024



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

3.3 Photometric test results

Category: XA2

Sample 1, One pulse per flash (12V)-by day

| No. | Point of the measurement | Limits [cd] | | Measured values [cd] | | Conclusion |
|-----|--------------------------|-------------|------|----------------------|--------------|------------|
| | | Max. | Min. | After 1 min | After 15 min | |
| 1 | 8U-10L | 1500 | 200 | 211.0 | 210.5 | Conform |
| 2 | 8U-10R | 1500 | 200 | 212.0 | 208.8 | Conform |
| 3 | 6U-20R | 1500 | 200 | 265.4 | 259.0 | Conform |
| 4 | 6U-V | 1500 | 300 | 381.7 | 376.4 | Conform |
| 5 | 6U-20L | 1500 | 200 | 271.8 | 270.4 | Conform |
| 6 | 4U-30L | 1000 | 80 | 223.7 | 223.3 | Conform |
| 7 | 4U-10L | 3000 | 400 | 404.0 | 397.9 | Conform |
| 8 | 4U-10R | 3000 | 400 | 406.6 | 396.9 | Conform |
| 9 | 4U-30R | 1000 | 80 | 206.0 | 203.1 | Conform |
| 10 | H-30R | 1000 | 200 | 218.7 | 217.6 | Conform |
| 11 | H-20R | 1500 | 300 | 312.9 | 312.2 | Conform |
| 12 | H-V | 3000 | 400 | 444.0 | 437.3 | Conform |
| 13 | H-20L | 1500 | 300 | 313.8 | 306.3 | Conform |
| 14 | H-30L | 1000 | 200 | 218.0 | 214.9 | Conform |
| 15 | 4D-30L | 1000 | 80 | 206.4 | 205.4 | Conform |
| 16 | 4D-10L | 3000 | 400 | 405.8 | 405.0 | Conform |
| 17 | 4D-10R | 3000 | 400 | 404.4 | 398.3 | Conform |
| 18 | 4D-30R | 1000 | 80 | 223.5 | 218.1 | Conform |
| 19 | 6D-20R | 1500 | 200 | 272.3 | 268.5 | Conform |
| 20 | 6D-V | 1500 | 300 | 380.2 | 378.3 | Conform |
| 21 | 6D-20L | 1500 | 200 | 266.2 | 265.7 | Conform |
| 22 | 8D-10L | 1500 | 200 | 210.9 | 207.7 | Conform |
| 23 | 8D-10R | 1500 | 200 | 210.0 | 205.0 | Conform |

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Sample 2, One pulse per flash (24V)-by day

| No. | Point of the measurement | Limits [cd] | | Measured values [cd] | | Conclusion |
|-----|--------------------------|-------------|------|----------------------|--------------|------------|
| | | Max. | Min. | After 1 min | After 15 min | |
| 1 | 8U-10L | 1500 | 200 | 215.2 | 215.0 | Conform |
| 2 | 8U-10R | 1500 | 200 | 220.4 | 219.8 | Conform |
| 3 | 6U-20R | 1500 | 200 | 268.1 | 267.0 | Conform |
| 4 | 6U-V | 1500 | 300 | 393.9 | 393.1 | Conform |
| 5 | 6U-20L | 1500 | 200 | 277.2 | 275.8 | Conform |
| 6 | 4U-30L | 1000 | 80 | 227.1 | 225.7 | Conform |
| 7 | 4U-10L | 3000 | 400 | 416.1 | 415.7 | Conform |
| 8 | 4U-10R | 3000 | 400 | 422.9 | 421.6 | Conform |
| 9 | 4U-30R | 1000 | 80 | 208.0 | 207.2 | Conform |
| 10 | H-30R | 1000 | 200 | 225.7 | 225.2 | Conform |
| 11 | H-20R | 1500 | 300 | 319.1 | 317.5 | Conform |
| 12 | H-V | 3000 | 400 | 450.7 | 448.0 | Conform |
| 13 | H-20L | 1500 | 300 | 323.2 | 322.9 | Conform |
| 14 | H-30L | 1000 | 200 | 226.7 | 226.0 | Conform |
| 15 | 4D-30L | 1000 | 80 | 208.5 | 207.6 | Conform |
| 16 | 4D-10L | 3000 | 400 | 418.8 | 417.9 | Conform |
| 17 | 4D-10R | 3000 | 400 | 412.5 | 410.4 | Conform |
| 18 | 4D-30R | 1000 | 80 | 226.9 | 225.5 | Conform |
| 19 | 6D-20R | 1500 | 200 | 280.5 | 280.2 | Conform |
| 20 | 6D-V | 1500 | 300 | 395.4 | 394.2 | Conform |
| 21 | 6D-20L | 1500 | 200 | 268.9 | 267.8 | Conform |
| 22 | 8D-10L | 1500 | 200 | 217.6 | 217.2 | Conform |
| 23 | 8D-10R | 1500 | 200 | 214.2 | 213.1 | Conform |

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Sample 1, One pulse per flash (12V)-by night

| No. | Point of the measurement | Limits [cd] | | Measured values [cd] | | Conclusion |
|-----|--------------------------|-------------|------|----------------------|--------------|------------|
| | | Max. | Min. | After 1 min | After 15 min | |
| 1 | 8U-10L | 600 | 100 | 114.9 | 114.7 | Conform |
| 2 | 8U-10R | 600 | 100 | 122.9 | 121.1 | Conform |
| 3 | 6U-20R | 600 | 100 | 151.3 | 147.6 | Conform |
| 4 | 6U-V | 600 | 150 | 213.8 | 210.8 | Conform |
| 5 | 6U-20L | 600 | 100 | 160.3 | 159.5 | Conform |
| 6 | 4U-30L | 300 | 40 | 123.0 | 122.8 | Conform |
| 7 | 4U-10L | 1500 | 200 | 234.3 | 230.8 | Conform |
| 8 | 4U-10R | 1500 | 200 | 231.8 | 226.2 | Conform |
| 9 | 4U-30R | 300 | 40 | 115.4 | 113.7 | Conform |
| 10 | H-30R | 300 | 100 | 129.0 | 128.4 | Conform |
| 11 | H-20R | 600 | 150 | 172.1 | 171.7 | Conform |
| 12 | H-V | 1500 | 200 | 257.5 | 253.7 | Conform |
| 13 | H-20L | 600 | 150 | 178.9 | 174.6 | Conform |
| 14 | H-30L | 300 | 100 | 122.1 | 120.4 | Conform |
| 15 | 4D-30L | 300 | 40 | 121.8 | 121.2 | Conform |
| 16 | 4D-10L | 1500 | 200 | 223.2 | 222.7 | Conform |
| 17 | 4D-10R | 1500 | 200 | 234.6 | 231.0 | Conform |
| 18 | 4D-30R | 300 | 40 | 127.4 | 124.3 | Conform |
| 19 | 6D-20R | 600 | 100 | 152.5 | 150.4 | Conform |
| 20 | 6D-V | 600 | 150 | 224.3 | 223.2 | Conform |
| 21 | 6D-20L | 600 | 100 | 146.4 | 146.1 | Conform |
| 22 | 8D-10L | 600 | 100 | 122.3 | 120.5 | Conform |
| 23 | 8D-10R | 600 | 100 | 119.7 | 116.8 | Conform |

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Sample 2, One pulse per flash (24V)- by night

| No. | Point of the measurement | Limits [cd] | | Measured values [cd] | | Conclusion |
|-----|--------------------------|-------------|------|----------------------|--------------|------------|
| | | Max. | Min. | After 1 min | After 15 min | |
| 1 | 8U-10L | 600 | 100 | 124.8 | 123.0 | Conform |
| 2 | 8U-10R | 600 | 100 | 125.6 | 122.6 | Conform |
| 3 | 6U-20R | 600 | 100 | 150.1 | 148.0 | Conform |
| 4 | 6U-V | 600 | 150 | 232.4 | 231.3 | Conform |
| 5 | 6U-20L | 600 | 100 | 152.5 | 152.1 | Conform |
| 6 | 4U-30L | 300 | 40 | 131.7 | 129.7 | Conform |
| 7 | 4U-10L | 1500 | 200 | 237.2 | 231.5 | Conform |
| 8 | 4U-10R | 1500 | 200 | 236.8 | 233.5 | Conform |
| 9 | 4U-30R | 300 | 40 | 122.7 | 122.1 | Conform |
| 10 | H-30R | 300 | 100 | 124.1 | 123.5 | Conform |
| 11 | H-20R | 600 | 150 | 185.1 | 184.2 | Conform |
| 12 | H-V | 1500 | 200 | 256.9 | 255.6 | Conform |
| 13 | H-20L | 600 | 150 | 187.5 | 183.0 | Conform |
| 14 | H-30L | 300 | 100 | 129.2 | 128.6 | Conform |
| 15 | 4D-30L | 300 | 40 | 116.7 | 116.5 | Conform |
| 16 | 4D-10L | 1500 | 200 | 247.1 | 243.4 | Conform |
| 17 | 4D-10R | 1500 | 200 | 226.9 | 221.4 | Conform |
| 18 | 4D-30R | 300 | 40 | 131.6 | 129.7 | Conform |
| 19 | 6D-20R | 600 | 100 | 159.9 | 159.1 | Conform |
| 20 | 6D-V | 600 | 150 | 221.4 | 220.3 | Conform |
| 21 | 6D-20L | 600 | 100 | 158.6 | 158.3 | Conform |
| 22 | 8D-10L | 600 | 100 | 119.7 | 119.1 | Conform |
| 23 | 8D-10R | 600 | 100 | 124.2 | 123.6 | Conform |

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

3.4 Standard light distribution for special warning flash lamp (Category X), is in according to table showing in Point 7.3.1 of Annex 7 of Regulation ECE R 65. (Insert documentations in annex or here) Conform / ~~Not Conform~~

4. **Rain test**

4.1 A sample of the special warning lamp, fitted in its normal operating position, with all the drainage apertures open if they exist, shall be subjected to a precipitation of 2.5 mm of water per minute, the water being directed at an angle of 45° and from a nozzle producing a full conical jet. Conform / ~~Not Conform~~

4.2 During the test, the device shall turn on its vertical axis at a rate of four turns per minute. Conform / ~~Not Conform~~

4.3 The test shall last for 12 hours continuously after which the water jet shall be stopped. Conform / ~~Not Conform~~

4.4 One hour later, the sample shall be examined and shall be regarded as having passed the test if the accumulated volume of water does not exceed 2 cm³. Conform / ~~Not Conform~~

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

4. Other information

Place of inspection: Guangzhou Shuntai Quality Technical Service Co, Ltd.

Date of inspection: 22/12/2023

| | Senior Inspector | Junior Inspector (if applicable) |
|--------------------------------------|------------------|-------------------------------------|
| Technical service representative(s): | Nancy Han | N/A |

Manufacturer's representative: NA

Remarks: None

4.1 Appendix

1. List of modifications
2. Test Photo (s)
3. Test Records

4.2 Enclosures

INFORMATION DOCUMENT

LH1-00

Inspection Report No.: ATS-SM-IR-R65-08390



Of: 26/12/2023

Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

5. 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 (see paragraph 1).

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025 and EN ISO/IEC 17020 / R65-00 ECE/UN.

The inspection report comprises pages 1 to 14.

It shall not be reproduced except in full, without written approval of the laboratory.

Dogana, Repubblica di San Marino, 26/12/2023

| | | | |
|---------------------------------------|---|---|---|
| Number of project and protocol | Originality Check (*) | Automotive Technical Service S.r.l. Inspector  <hr/> (Nancy Han) |  |
| |  ATS-SM-PR-08390 | Automotive Technical Service S.r.l. Deputy Technical Director  <hr/> (Eng. Bogdan Nicolae Domnescu) | |

(*) 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.

Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2023



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Appendix 1

List of modifications

Applicable/ Not Applicable

Appendix 1

More details for application of

Date : -

Correction of : -

Modification of : -

Addition of : -

Deletion of : -



Inspection Report No.: ATS-SM-IR-R65-08390

Of: 26/12/2023



Type: LH1

Manufacturer: Guangzhou Hobart Lights Limited

Appendix 2


Appendix 2



INFORMATION DOCUMENT

FIRST APPLICATION DATE: 09/12/2023

1. Specification data

| | | |
|--|---|-------------------|
| Type | LH1 | |
| Variants | -- | |
| Trade name or mark |  | |
| Function | Warning lamp | |
| Applicable Regulation | ECE R. 65.00 Category XA2 | |
| Flash Patterns | Directional flashing, One pulse per flash | |
| Color | Amber | |
| Number and category of Light sources | 6xLEDs, Non-replaceable light source | |
| Rated | Voltage | 12/24V |
| | Wattage | 10.5W |
| Location of marking | Rated Voltage and Wattage | Marked on Housing |
| | Trade mark | Marked on Housing |
| | Approval mark | Marked on Housing |
| Number of separate units (if applicable) | Two level of intensity (Class 2)in Amber Applying Yellow wire touch to Red wire for 5 seconds will activata the effective intensity”By day”, and then applying Yellow wire touch to Red wire for 1 second will activata the effective intensity “By night” | |

2. Construction and material

| Construction | Material | Remarks |
|-------------------|--------------------------------|---------|
| Outer Lens | PC | Clear |
| Cover | | |
| Housing | ADC12 | Black |
| Electrical wiring | Copper covered with insulation | --- |

3. Name and address of manufacturer

Guangzhou Hobart Lights Limited

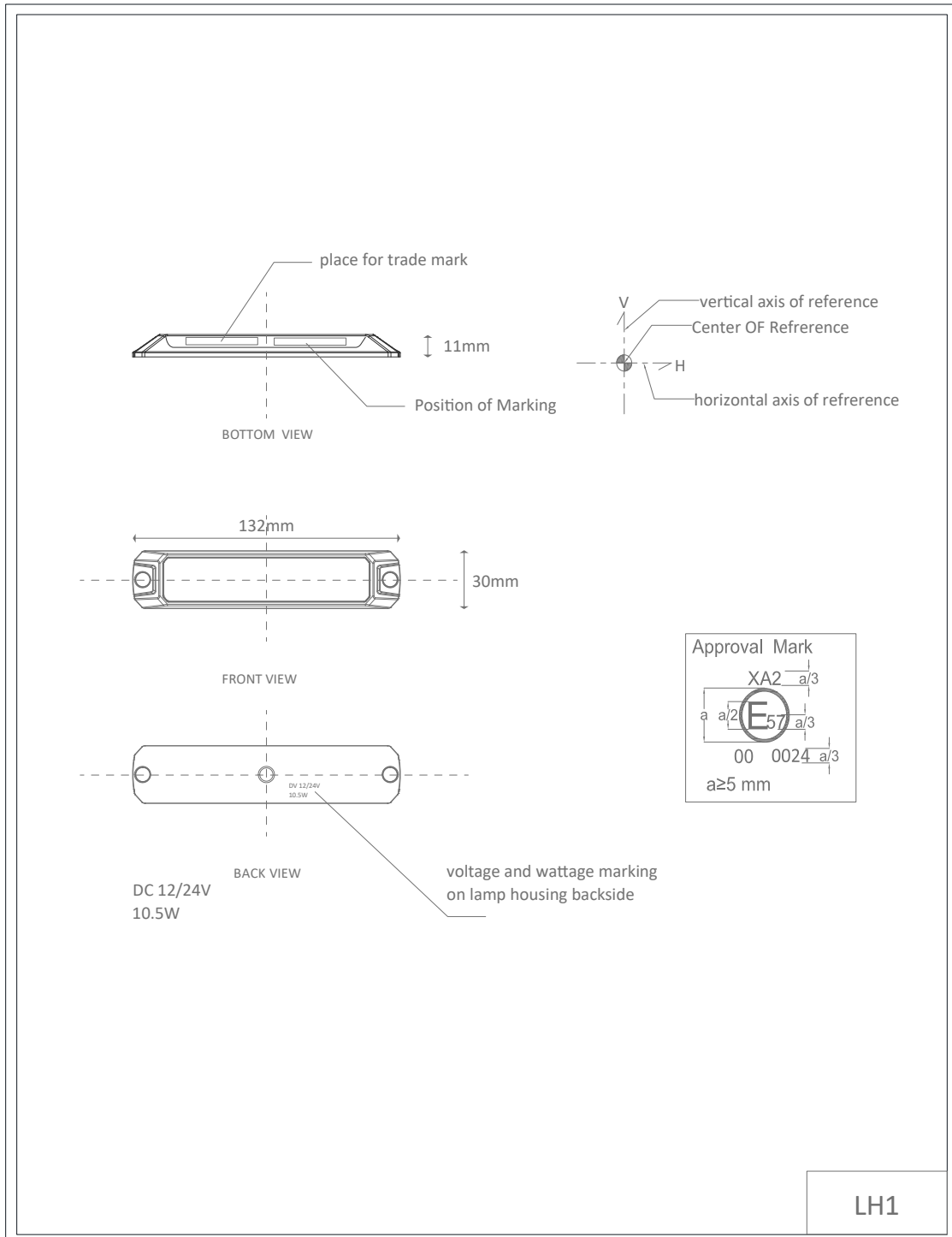
No. 1 Chuangjia Road, Baiyun District, Guangzhou City, Guangdong Province, People's Republic of China, 510000

Company name: Guangzhou Hobart Lights Limited

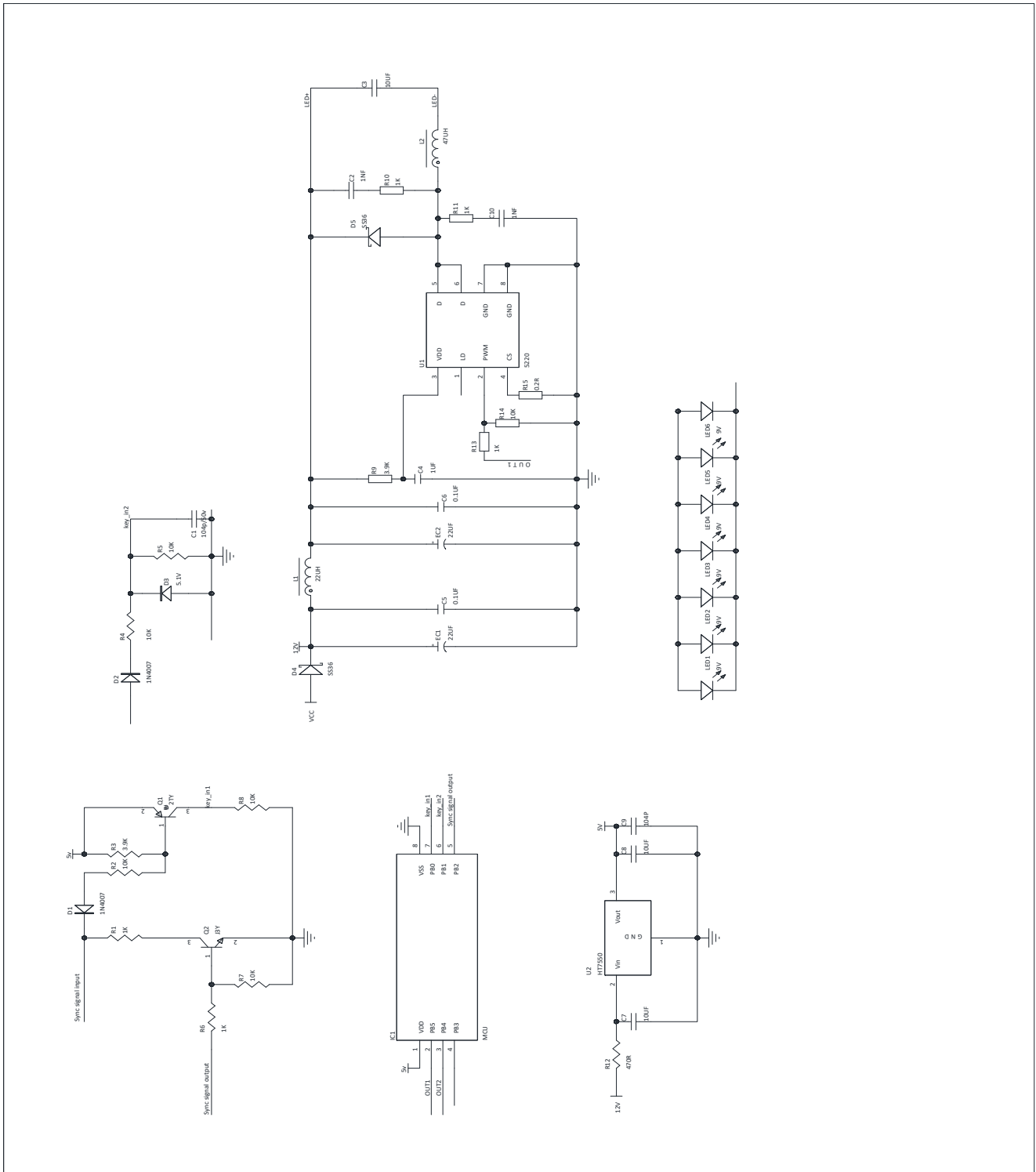
Authorized person: Zheng Pei Wen

NOTE: APPROVAL MARKINGS ARE SHOWN IN THE ATTACHED DRAWINGS.
THIS INFORMATION DOCUMENT CONSISTS OF 3 PAGES.

Drawing of Structure



CIRCUIT DIAGRAM



6 LEDs, Non-replaceable light source
Input 12/24V 10.5W (Peak power)