

Index du dossier de réception d'une homologation par type en application d'un Règlement
Index to the information package of a type approval with regard to a Regulation

Dernière Série d'amendements applicable <i>Last applicable Series of amendments</i>	N° de la réception de base et mise à jour <i>Base approval and update No</i>	Extension N° <i>Extension No</i>	Révision N° <i>Revision No</i>	Date d'émission <i>Issue date</i>	Fiche de renseignements <i>Information document</i>	
					Référence <i>Reference</i>	Nombre de pages <i>Number of pages</i>
7-02	00	-	-	30.08.2011	AutoLong 5800-RR-RSE / 00	3

Vu pour être annexé à la fiche de réception,
Approved and to be attached to the approval certificate,
L'Attaché,
The Attache,



ir. A. DESCAMPS

N° d'homologation mis à jour : <i>Updated Approval No</i>	E6-7R-020199	BEVASYS :	201104245
Mise à jour N° : <i>Update No</i>	00	Date d'émission : <i>Issue date</i>	30.08.2011
		P 1	



COMMUNICATION CONCERNANT L'HOMOLOGATION D'UN TYPE DE DISPOSITIF
COMMUNICATION CONCERNING THE APPROVAL OF A TYPE OF DEVICE
EN APPLICATION DU REGLEMENT N° 7-02
PURSUANT TO REGULATION No 7-02

N° d'homologation : E6-7R-020199
Approval No.

Marque d'homologation :
Approval mark

E6 R1-S1 02 0199

1. Marque de fabrique ou de commerce du dispositif : AUTOLONG
1. Trade name or mark of the device
2. Désignation du type de dispositif par le fabricant : 5800-RR-RSE
2. Manufacturer's name for the type of device
3. Nom et adresse du fabricant :
3. Manufacturer's name and address

AUTO LONG ELECTRIC INDUSTRIES CO.,LTD.
No. 13, Hsin Chung Road,
Tainan, Taiwan, R. O. C.
4. Nom et adresse du mandataire du fabricant (le cas échéant) : -
4. If applicable, name and address of manufacturer's representative
5. Dispositif soumis à l'homologation le : 18.07.2011 ~ 19.07.2011
5. Submitted for approval on
6. Service technique chargé des essais :
6. Technical service responsible for conducting approval tests

AIB VINCOTTE INTERNATIONAL
Jan Olieslagerslaan 35
1800 VILVOORDE
7. Date du procès-verbal d'essai : 30.08.2011
7. Date of test report issued by that service
8. Numéro du procès-verbal d'essai : H1160302490/092
8. Number of test report issued by that service

9. Brève description : ¹ voir fiche de renseignements
9. Concise description ¹ : see information document

Par catégorie de feu : R1-S1
By category of lamp

Pour montage à l'extérieur ou à l'intérieur, ou les deux ²
For mounting either outside or inside or both ²

Couleur de la lumière émise : rouge / blanc ²
Colour of light emitted : red / white ²

Nombre, catégorie et type de la ou des sources lumineuses : 10 LEDs / 1 light source
Number and category of light source(s)

Tension et puissance : 24V, 0.1W for rear position lamp
Voltage and wattage 24V, 0.7W for stop lamp

Code d'identification spécifique du module de la source lumineuse : -
Light source module specific identification code

Hauteur de montage limitée à 750 mm au-dessus du sol : ~~oui~~ / non ²
Only for limited mounting height of equal to or less than 750 mm above the ground : ~~yes~~ / no ²

Caractéristiques géométriques de montage et variantes éventuelles : voir fiche de renseignements
Geometric conditions of installation and relating variations, if any: see information document

Le dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Application of an electric light source control gear / variable intensity control :

(a) fait partie du feu : ~~oui~~ / non ²
(a) being part of the lamp : ~~yes~~ / no ²

(b) ne fait pas partie du feu : ~~oui~~ / non ²
(b) being not part of the lamp : ~~yes~~ / no ²

Tension d'alimentation du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité : -
Input voltage supplied by an electronic light source control gear / variable intensity control :

Nom du fabricant et numéro d'identification du dispositif de régulation électronique de la source lumineuse ou du régulateur d'intensité (lorsque le dispositif de régulation de la source lumineuse fait partie du feu mais n'est pas incorporé dans son boîtier) : -
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)

Intensité lumineuse variable : ~~oui~~ / non ²
Variable luminous intensity : ~~yes~~ / no ²

10. Position de la marque d'homologation : sur la lampe
10. Position of the approval mark : on the lamp

11. Motif(s) de l'extension d'homologation (le cas échéant) : -
11. Reason(s) for extension (if applicable)

12. Homologation accordée / étendue ²
12. Approval granted / extended ²

¹ Pour des feux équipés de sources lumineuses non remplaçables, indiquer le nombre et la consommation totale en watt des sources lumineuses
For lamps with non-replaceable light sources indicate the number and the total wattage of the light sources

² Biffer les mentions qui ne conviennent pas - Strike out what does not apply

13. Lieu : Bruxelles
13. *Place*
14. Date : 30.08.2011
14. *Date*
15. Signature :
15. *Signature*

AU NOM DU MINISTRE :
ON BEHALF OF THE MINISTER
Pour le Directeur Général,
For the Director General
L'Attaché,
The Attache,



ir. A. DESCAMPS

16. Est annexée la liste des pièces constituant le dossier d'homologation déposé au Service administratif ayant délivré l'homologation et pouvant être obtenu sur demande.
16. *The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request.*



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Safety, quality and environmental services

AUTOMOTIVE CERTIFICATION

Business Class Kantorenpark – Jan Olieslagerslaan 35 – B-1800 Vilvoorde

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1. **SUBJECT : FRONT AND REAR POSITION (SIDE) LAMPS
STOP-LAMPS
END-OUTLINE MARKER LAMPS**

R7-02

2. **REF. :** Report number : **H1160302490/092** No. of pages : 1 of 11 No. of annexes : -
Bevasys number : 201104245 (0199 00) Update : 00

3. **GENERALITIES :**

Make of Device : AUTOLONG

Commercial Type : -

Manufacturer's Type : 5800-RR-RSE

Name and address of the manufacturer :

AUTO LONG ELECTRIC INDUSTRIES CO., LTD.

No.13, Hsin Chung Rd, Tainan, Taiwan, R.O.C.

4. **TESTS :** Date and place : 2011.07.18 to 2011.07.19
SUN-JET VISIBLE LIGHT LABORATORY
Applied document(s) : AutoLong 5800-RR-RSE / 00
AVI Inspector : D. ROOSELEERS
Persons witnessing the tests : LU WAN CHING (SUN-JET)
Location of E-mark : On the lamp

5. **CONCLUSIONS :**

The tests were carried out according to the following specifications :

- UNECE Regulation No. 7 incorporating supplement 14 to the 02 series of amendments.

The models presented comply with the requirements to be applied.

Date : 2011.08.30

Signature :



nv AIB-VINÇOTTE INTERNATIONAL sa

Davy ROOSELEERS
Automotive Certification

DESCRIPTION OF THE TESTED LAMP

- Lamp type : Rear position lamp, which is reciprocally incorporated with stop lamp
The device is conformity the rear position (side) lamps which are deemed being also approved end-outline marker lamps
- Lamp category : R1-S1
- Category and kind of light source(s) : LED
- Number of light source : 10LEDs / 1 light source
- Voltage and wattage : 24V, 0.1W for rear position lamp
24V, 0.7W for stop lamp

GENERAL SPECIFICATIONS

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
Each device supplied shall conform to the specifications set forth in § 6 and § 8 below.	5.1.	X	
The devices must be 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 this Regulation.	5.2.	X	
Lamps having been approved as front or rear position (side) lamps, are deemed being also approved end-outline marker lamps.	5.3.		X
Front and rear position (side) lamps which are grouped or combined or reciprocally incorporated may also be used as end-outline marker lamps.	5.4.	X	
Position (side) lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanetly with an additional system to regulate the intensity of the light emitted, are permitted.	5.5.	X	
However, in the case of rear (side) position lamp reciprocally incorporated with a stop lamp, the device shall either : (i) be a part of a multiple light source arrangement, or (ii) be intended for use in a vehicle equipped with a failure monitoring system for that function. In either case, a note shall be made within the communication document.	5.5.1.	X	
In the case of light source modules, it shall be checked that:	5.6.		X
The design of the light source module(s) shall be such as : (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 device, light source modules having different characteristics can not be interchanged within the same lamp housing.	5.6.1.		
The light source module(s) shall be tamperproof.	5.6.2.		

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
<p>If the front position lamp incorporates one or more infrared radiation generators, the photometric and colour requirements for this front position lamp shall be met with and without the operation of the infrared radiation generator(s).</p>	5.7.		X
<p>In case of failure of the variable intensity control of: (a) a rear position lamp category R2 emitting more than the maximum value of category R or R1; (b) a stop lamp category S2 emitting more than the maximum value of category S1; (c) a stop lamp category S4 emitting more than the maximum value of category S3 requirements of steady luminous intensity of the respective category shall be fulfilled automatically</p>	5.7.		X
<p>In the case of replaceable filament lamp(s) : Any category or categories of filament lamp(s) approved according to Regulation No. 37 may be used, provided that no restriction on the use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval. The design of the device shall be such that the filament lamp can be fixed in no other position but the correct one. The filament lamp holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of filament lamp used, applies.</p>	5.8. 5.8.1. 5.8.2. 5.8.3.		X

INTENSITY OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
In the reference axis, the light emitted by each of the two devices supplied must be of not less than the minimum intensity and of not more than the maximum intensity specified in the table of § 6.1.	6.1.	X	
Outside the reference axis and within the angular fields defined in the diagrams in Annex 1 to this Regulation, the intensity of the light emitted by each of the two devices supplied must :	6.2.		
In each direction corresponding to the points in the light distribution table reproduced in Annex 4 to this Regulation, be not less than the product of the minimum specified in § 6.1. above by the percentage specified in the said table of the direction in question;	6.2.1.	X	
In no direction within the space from which the light-signalling device is visible, exceed the maximum specified in § 6.1. above;	6.2.2.	X	
However, a luminous intensity of 60 cd shall be permitted for rear position (side) lamps reciprocally incorporated with stop-lamps (see § 6.1.3. above) below a plane forming an angle of 5° with and downward from the horizontal plane;	6.2.3.	X	
Moreover,	6.2.4.		
Throughout the fields defined in the diagrams in Annex 1, the luminous intensity of the light emitted must be not less than 0.05 cd for front and rear position (side) lamps and end-outline marker lamps, not less than 0.3 cd for stop-lamps.	6.2.4.1.	X	
If a rear position (side) 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 (side) 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.	6.2.4.2.	X	
If the rear position (side) lamp or the stop lamp or both contain more than one light source and are considered as a single lamp as defined in note 4/ of the table in § 6.1. above, the values to be considered are those obtained with all sources in operation			
The provisions of § 2.2. of Annex 4 to this Regulation on local variations of intensity must be observed.	6.2.4.3.	X	

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
The intensities shall be measured with the filament lamp(s) continuously alight and, in the case of devices emitting selective-yellow or red light, in coloured light.	6.3.		X
In the case of devices of categories R2, S2 and S4 the time that elapses between energising the light source(s) and the light output measured on the reference axis to reach 90 per cent of the value measured in accordance with § 6.3. above shall be measured for the extreme levels of luminous intensity produced by the device. The time measured to obtain the lowest luminous intensity shall not exceed the time measured to obtain the highest luminous intensity	6.4.		X
The variable intensity control shall not generate signals which cause luminous intensities outside the range specified in § 6.1. above and exceeding the respective steady luminous intensity maximum specified in § 6.1. for the specific device	6.5. 6.5.1. 6.5.2.		X
(a) for systems depending only on day time and night time conditions : under night time conditions (b) for other systems: under standard conditions ¹			
Annex 4, to which reference is made in § 6.2.1. above, gives particulars of the methods of measurement to be used.	6.6.	X	

¹ Good visibility (meteorological optical range MOR > 2,000 m defined according to WMO, Guide to Meteorological Instruments and Methods of Observation, Sixth Edition, ISBN: 92-63-16008-2, pp 1.9.1/1.9.11, Geneva 1996) and clean lens

TEST PROCEDURE

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
All measurements, photometric and colorimetric, shall be made:	7.1.		
In case of a lamp with replaceable light source, if not supplied by an electronic light source control gear or a variable intensity control, with an uncolored or colored standard filament lamp of the category prescribed for the device, supplied with the voltage necessary to produce the reference luminous flux required for that category of filament lamp,	7.1.1.		X
In the case of a lamp equipped with non-replaceable light sources (filament lamps and other), at 6.75 V, 13.5 V or 28.0 V respectively.	7.1.2.	X	
In the case of a system that uses an electronic light source control gear or a variable intensity control, being part of the lamp <u>6/</u> applying at the input terminals of the lamp the voltage declared by the manufacturer or, if not indicated, 6.75 V, 13.5 V or 28.0 V respectively.	7.1.3.		X
In the case of a system that uses an electronic light source control gear or a variable intensity control, not being part of the lamp the voltage declared by the manufacturer shall be applied to the input terminals of the lamp.	7.1.4.		X

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
However, in the case of light sources operated by a variable intensity control to obtain variable luminous intensity, photometric measurements shall be performed according to the applicant's description.	7.2.		X
The test laboratory shall require from the manufacturer the light source control gear or a variable intensity control needed to supply the light source and the applicable functions.	7.3.		X
The voltage to be applied to the lamp shall be noted in the communication form in Annex 2 of this Regulation.	7.4.	X	
The limits of the apparent surface in the direction of the reference axis of a light-signalling device shall be determined.	7.5.	X	
In the case of a category S3 or S4 stop lamp, which is intended to be mounted inside the vehicle a sample plate or sample plates (in case of different possibilities) as supplied (see § 2.2.5.) shall be positioned in front of the lamp to be tested, in the geometrical position(s) as described in the application drawing(s) (see § 2.2.1.).	7.6.		X

COLOUR OF LIGHT EMITTED

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
The colour of the light emitted inside the field of the light distribution grid defined in § 2 of Annex 4 shall be red or white. For testing see Annex 5 to this Regulation. Outside this field, no sharp variation of colour shall be observed. These requirements shall also apply within the range of variable luminous intensity produced by: (a) rear position lamps of category R2; (b) stop lamps of categories S2 and S4.	8.	X	

FRONT AND REAR POSITION (SIDE) LAMPS, END-OUTLINE MARKER LAMPS AND STOP-LAMPS : MINIMUM ANGLES REQUIRED FOR LIGHT DISTRIBUTION IN SPACE OF THESE LAMPS ¹ (ANNEX 1)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
In all cases, the minimum vertical angles of light distribution in space are 15° above and 15° below the horizontal for all categories of devices included in this Regulation except : (a) for lamps with a permissible mounting height 750 mm above the ground, for which they are 15° above and 5° below the horizontal (b) for Category S3 or S4 stop lamp for which they are 10 ° above and 5° below the horizontal		X	

¹ The angles shown in these diagrams are correct for devices to be mounted on the right side of the vehicle. The arrows point to the front of the vehicles.

PHOTOMETRIC MEASUREMENTS (ANNEX 4)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applied
Measurement methods	1.		
During photometric measurements, stray reflections shall be avoided by appropriate masking.	1.1.	X	
In case the results of measurements should be challenged, measurements shall be carried out in such a way as to meet the following requirements :	1.2.		
The distance of measurements shall be such that the law of the inverse of the square of the distance is applicable;	1.2.1.	X	
The measuring equipment shall be such that the angular aperture of the receiver viewed from the reference centre of the light is comprised between 10' and 1 degree;	1.2.2.	X	
The intensity requirements for a particular direction of observation shall be deemed to be satisfied if that requirement is met in a direction deviating by not more than one-quarter of a degree from the direction of observation.	1.2.3.		X
In the case where the device may be installed on the vehicle in more than one or in a field of different positions the photometric measurements shall be repeated for each position or for the extreme positions of the field of the reference axis specified by the manufacturer.	1.3.		X
Table of standard light distribution	2.		
The direction $H = 0^\circ$ and $V = 0^\circ$ corresponds to the reference axis. (On the vehicle, it is horizontal, parallel to the median longitudinal plane of the vehicle and oriented in the required direction of visibility.) It passes through the centre of reference. The values shown in the tables give, for the various directions of measurement, the minimum intensities as a percentage of the minimum required in the axis for each lamp (in the direction $H = 0^\circ$ and $V = 0^\circ$).	2.1.	X	
Within the field of light distribution of § 2., schematically shown as a grid, the light pattern should be substantially uniform, i.e. the light intensity in each direction of a part of the field formed by the grid lines shall meet at least the lowest minimum value being shown on the grid lines surrounding the questioned direction as a percentage.	2.2.	X	
However, in the case where a device is intended to be installed at a mounting height of equal to or less than 750 mm above the ground, the photometric intensity is verified only up to an angle of 5° downwards.	2.3.		X
Photometric measurements of lamps	3.		
The photometric performance shall be checked :			
For non-replaceable light sources (filament lamps and other) :	3.1.	X	
with the light sources present in the lamp, in accordance with § 7.1.1. of this Regulation			

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>For replaceable filament lamps :</p> <p>when equipped with filament lamps at 6.75 V, 13.5 V or 28.0 V, the luminous intensity values produced shall be corrected. The correction factor is the ratio between the reference luminous flux and the mean value of the luminous flux found at the voltage applied (6.75 V, 13.5 V or 28.0 V). The actual luminous fluxes of each filament lamp used shall not deviate more than $\pm 5\%$ from the mean value. Alternatively a standard filament lamp may be used in turn, in each of the individual positions, operated at its reference flux, the individual measurements in each position being added together.</p>	3.2.		X
<p>For any signalling lamp except those equipped with filament lamp(s), the luminous intensities measured after one minute and after 30 minutes of operation shall comply with the minimum and maximum requirements. The luminous intensity distribution after one minute of operation can be calculated from the luminous intensity distribution after 30 minutes of operation by applying at each test point the ratio of luminous intensities measured at HV after one minute and after 30 minutes of operation.</p>	3.3.	X	

COLOUR OF LIGHTS : CHROMATICITY CO-ORDINATES (ANNEX 5)

Characteristics concerned and prescriptions to apply	References	Conformity	Not applicated
<p>For checking the colorimetric characteristics, the test procedure described in §7 shall be applied.</p> <p>However, for lamps equipped with non-replaceable light sources (filament lamps and other), the colorimetric characteristics should be verified with the light sources present in the lamp, in accordance with the relevant sub-paragraph of §7.1.</p> <p>In the case of a Category S3 or S4 stop lamp, which is intended to be mounted inside the vehicle, the colorimetric characteristics shall be verified with the worst case combination(s) of lamp and rear window(s) or sample plate(s).</p>		X	

TEST RESULTS : REAR POSITION LAMP

Light sources : 10LEDs ; Rated voltage and wattage : 24V, 0.1W

Test Results of Photometric Measurement							
Lamp Function : Rear Position Lamp			Test Voltage : 28 V				
Category : R1			Test Distance : 3.16 M				
Requirement : ECE Reg. 7 Para. 6							
Point on Measuring Screen	Requirement (cd)		Sample 1 Measurement (cd)		Sample 2 Measurement (cd)		
	Min	Max	1 Minute	30 Minutes	1 Minute	30 Minutes	
10U - 5L	0.8	12	7.02	7.01	6.86	6.86	
10U - 5R	0.8	12	8.05	8.03	7.17	7.17	
5U - 20L	0.4	12	2.72	2.72	2.92	2.92	
5U - 10L	0.8	12	6.44	6.43	7.11	7.11	
5U - V	2.8	12	10.85	10.83	10.04	10.03	
5U - 10R	0.8	12	9.13	9.11	7.59	7.58	
5U - 20R	0.4	12	3.39	3.39	3.18	3.18	
H - 10L	1.4	12	7.33	7.32	8.09	8.09	
H - 5L	3.6	12	10.57	10.55	10.02	10.01	
H - V	4	12	10.28	10.26	8.62	8.61	
H - 5R	3.6	12	10.27	10.25	9.62	9.62	
H - 10R	1.4	12	9.67	9.65	8.59	8.58	
5D - 20L	0.4	60	2.72	2.71	3.21	3.21	
5D - 10L	0.8	60	7.41	7.40	7.92	7.91	
5D - V	2.8	60	10.76	10.74	9.60	9.60	
5D - 10R	0.8	60	9.52	9.50	8.32	8.31	
5D - 20R	0.4	60	3.69	3.68	3.37	3.37	
10D - 5L	0.8	60	8.46	8.45	8.76	8.75	
10D - 5R	0.8	60	9.21	9.19	8.71	8.70	
Visibility	Zone Scan (Above 5D)	0.05	-	0.074	0.074	0.080	0.080
		-	17	11.053	11.032	10.195	10.189
	Zone Scan (Below 5D)	0.05	-	0.080	0.080	0.088	0.088
		-	60	11.147	11.126	10.217	10.211
Test Results		<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed					

TEST RESULTS : STOP LAMP

Light sources : 10LEDs ; Rated voltage and wattage : 24V, 0.7W

Test Results of Photometric Measurement							
Lamp Function : Stop Lamp			Test Voltage : 28 V				
Category : S1			Test Distance : 3.16 m				
Requirement : ECE Reg. 7 Para. 6							
Point on Measuring Screen	Requirement (cd)		Sample 1 Measurement (cd)		Sample 2 Measurement (cd)		
	Min	Max	1 Minute	30 Minutes	1 Minute	30 Minutes	
10U - 5L	12	185	66.2	64.2	64.8	62.8	
10U - 5R	12	185	76.5	74.1	68.0	66.0	
5U - 20L	6	185	25.5	24.7	27.6	26.8	
5U - 10L	12	185	61.3	59.4	67.7	65.7	
5U - V	42	185	102.0	98.9	96.0	93.0	
5U - 10R	12	185	86.0	83.3	71.9	69.7	
5U - 20R	6	185	31.6	30.6	29.7	28.8	
H - 10L	21	185	69.9	67.7	77.8	75.5	
H - 5L	54	185	99.9	96.8	95.5	92.6	
H - V	60	185	97.4	94.4	82.6	80.1	
H - 5R	54	185	97.8	94.7	92.3	89.5	
H - 10R	21	185	91.1	88.2	81.7	79.2	
5D - 20L	6	185	25.4	24.6	30.4	29.5	
5D - 10L	12	185	70.2	68.0	75.6	73.3	
5D - V	42	185	101.2	98.1	92.1	89.3	
5D - 10R	12	185	90.0	87.2	79.1	76.7	
5D - 20R	6	185	34.4	33.4	31.4	30.4	
10D - 5L	12	185	80.6	78.1	83.8	81.3	
10D - 5R	12	185	86.8	84.1	82.5	80.0	
Visibility	Zone Scan	0.3	-	1.82	1.77	1.72	1.67
		-	260	105.14	101.88	98.06	95.08
Test Results		<input checked="" type="checkbox"/> Passed <input type="checkbox"/> Failed					

Test Results of Colour Measurement

Lamp Function : Stop Lamp

Requirement : ECE Reg. 7 Para. 8

Light Emitted Color : Red

Color Boundaries - Limit towards yellow : $y \leq 0.335$

- Limit towards purple : $y \geq 0.980 - x$

Test Points	Sample 1 Measurement		Sample 2 Measurement	
	Colour x	Colour y	Colour x	Colour y
5U - V	0.6979	0.3020	0.6978	0.3021
H 5L	0.6980	0.3019	0.6979	0.3020
H - V	0.6981	0.3018	0.6978	0.3021
H - 5R	0.6980	0.3019	0.6980	0.3019
5D - V	0.6979	0.3020	0.6979	0.3020
Test Results	<input checked="" type="checkbox"/> Passed		<input type="checkbox"/> Failed	

AUTO LONG ELECTRIC INDUSTRIES CO., LTD.

No.13, Hsin Chung Rd., Tainan,
Taiwan, R.O.C.



AUTOMOTIVE certification

Business Class Kantorenpark

Jan Olieslagerlaan 35

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2011.08.30

COMBINATION TAILLAMP

AUTOLONG 5800-RR-RSE

Application: original

Date: July 04, 2011

Total number of pages: 3

Manufacturer name and address: AUTO LONG ELECTRIC INDUSTRIES CO., LTD.
No.13, Hsin Chung Rd, Tainan, Taiwan, R.O.C

Trade name or mark : AUTOLONG

Type of device : 5800-RR-RSE



AUTOMOTIVE certification
 Business Class Kantorenpark
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SPECIFICATIONS

Function-Application-class category lamp and colour

Trade name or mark	<i>AUTOLONG</i>		
Function	<i>Rear position lamp</i> ⁽¹⁾⁽²⁾	<i>Stop Lamp</i> ⁽¹⁾	
ECE Regulation	07-02 Supplement 14	07-02 Supplement 14	
Class	-	-	
Category	R1	S1	
Number, category and kind of light source (s)	10LEDs / 1 light source	10LEDs / 1 light source	
Voltage and wattage	24V, 0.1W	24V, 0.7W	
Lens	Outer	Red	Red
	Filter(Inner)	-	-
Colour of light emitted	Red	Red	

⁽¹⁾ Rear position lamp is reciprocally incorporated with stop lamp.

⁽²⁾ The device is conformity the rear position (side) lamps which are deemed being also approved end-outline marker lamps.

TECHNICAL DATA

Part	Material	Remark
Lens	Outer	PMMA Red in colour
	Filter (Inner)	-
Reflector	-	-
Housing	ABS	-

MARKING

Marking		Location
Trade name or mark	AUTOLONG	See drawing
Approval marks	0199	See drawing

↑
Front Of VEHICLE

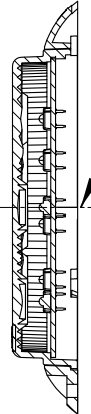
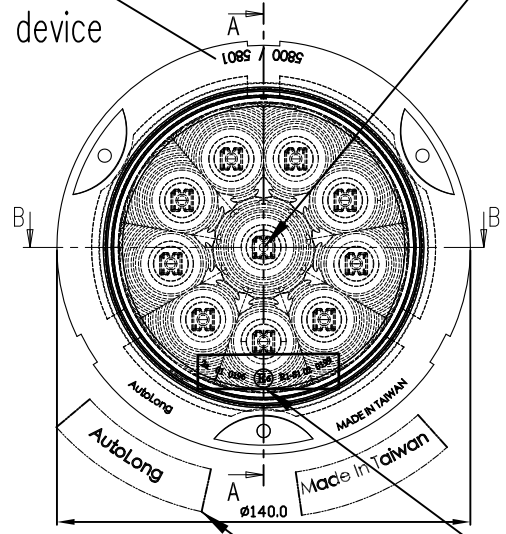
Axis of Reference
Longitudinal Plane of Vehicle

Rear / Stop Lamp
(10 Led's ; 24V 0.1 W / 0.7 W)

Rear / Stop Lamp (10 Led's ; 24V 0.1 W / 0.7 W) R
Centre of Reference

1089 / 008s
Type of device

B-B section

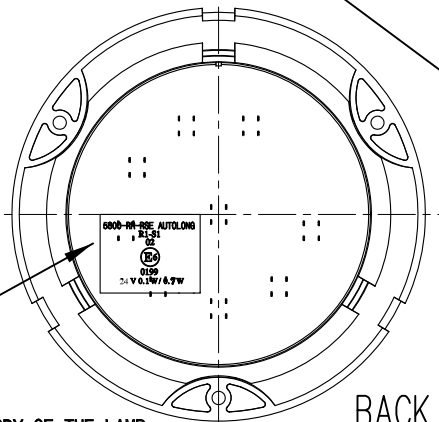


Axis of reference
Horizontal Plane of Vehicle
Rear / Stop Lamp
(10 Led's ; 24V 0.1 W / 0.7 W)



2a 01 0196 (E6) R1-S1 02 0199

Trade name



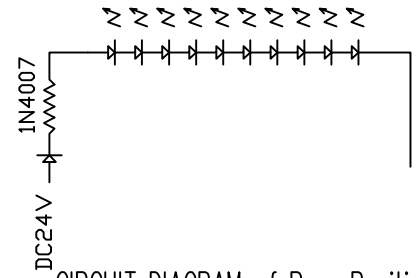
5800-RR-RSE AUTOLONG
R1-S1
02
(E6)
0199
24V 0.1W / 0.7W

LABEL ON THE MAIN BODY OF THE LAMP

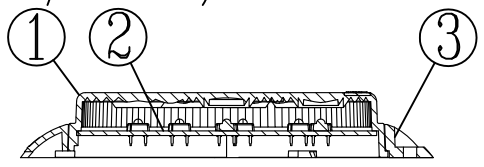
BACK VIEW

REV. LTR.	DATE	REVISION ORIGINOR	SIGN	APPROVED	CLASS	TOLERANCE			
						A	B	C	D
△1					8 以下	0.03	0.05	0.10	0.20
△2					8~25	0.05	0.08	0.20	0.30
					25~80	0.08	0.10	0.30	0.40
					80~250	0.10	0.20	0.40	0.50
					250 以上	0.20	0.30	0.50	0.60

5800-28V-10S



CIRCUIT DIAGRAM of Rear Position / Stop Lamp



ITEM	PART NAME	MATERIAL
1	LENS (Red)	PMMA
2	LED 10 PCS	PCB ASSEMBLY 24V
3	Outer Housing	ABS

NOTE: This drawing shall be applied of left hand or right hand.
The left hand and right hand are the same .
The Lens and Outer Housing were combined by Glue .

AUTO LONG ELECTRIC INDUSTRIES CO., LTD			Technical department	No.REV.	1	UNIT	MM	CLIENT NO.	
APPROVED	CHECKED	DESIGNED/DRAWN		MATERIAL		SCALE	FREE	MODEL NO.	5800-RR-RSE
peter HO	peter HO	ben HO	MAT. THICK				PRODUCT NAME	Rear/Stop Lamp	
DATE 11-07-15	DATE 11-07-15	DATE 11-07-15	PRCS.				PRODUCT NO.	5800-33-37-R	
			DWG. NO.	5800-A-002			MOULD NO.	5800-00-M01	