

ECE TYPE-APPROVAL CERTIFICATE

	Issued by:	Name of Administration: National Standard Authority of Ireland 1 Swift Square, Northwood, Santry, Dublin 9, Ireland D09 A0E4	
	Concerning ² :	Approval granted ~~Approval extended~~ ~~Approval refused~~ ~~Approval withdrawn~~ ~~Production definitely discontinued~~	
Of a type of lamp pursuant to UN Regulation No. 148			
Lamp: ²	~~Rear-registration plate illuminating lamp~~ Direction indicator lamp Stop lamp Position lamp ~~End-outline marker lamp~~ Reversing lamp ~~Manoeuvring lamp~~ Rear fog lamp ~~Parking lamp~~ ~~Daytime running lamp~~ Side marker lamp		
	Category of the lamp:	2a, R1, S1, AR, F1	Change index:
Approval No:	E24*148R00/03*0365*00	Unique Identifier (UI) (If applicable)	

¹ Distinguishing number of the country which has granted/extended/refused/withdrawn approval (see approval provisions in this Regulation).

² Strike out what does not apply.



Approval No: **E24*148R00/03*0365*00**

- | | | |
|--------|--|--|
| 1. | Trade name or mark of the lamp: | NVEL |
| 2. | Manufacturer's name for the type of lamp: | NV-TRL514 |
| | Version(s): | N/A |
| 3. | Manufacturer's name and address: | Guangzhou New View Electrical & Lighting Co., Ltd.
Floor 1-4, Building 1, No.4, Longkou Industrial Road, Huashan Town, Huadu District, Guangzhou City, Guangdong Province, 510880, China. |
| 4. | If applicable, name and address of manufacturer's representative: | N/A |
| 5. | Submitted for approval on: | 21.10.2022 |
| 6. | Technical service responsible for conducting approval tests: | CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma |
| 7. | Date of test report issued by that service: | 20.10.2022 |
| 8. | Number of report issued by that service: | CN-112-17-36-COM22-04422-FIR |
| 9. | Concise description: | |
| 9.1. | In case of | |
| 9.1.1. | A rear-registration plate illuminating lamp: | |
| | Geometrical conditions of installation (position(s) and inclination(s) of the device in relation to the space to be occupied by the registration plate and/or different inclinations of this space): | N/A |
| 9.1.2. | A direction indicator: | |
| | Sequential activation of light sources: ~~yes~~ ^{no} | Yes |
| 9.1.3. | A reversing lamp: | |
| | The lamp shall be installed on a vehicle only as part of a pair of lamps: ~~yes~~ /no | No |
| 9.1.4. | A manoeuvring lamp: | |
| | The maximum mounting height: | N/A |

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9.1.5. A daytime running lamp

Maximum luminous intensity does not exceed 700 cd: **N/A**

9.2. By light signalling function and category: ***see test report for more details***

For mounting either outside or ~~inside or both~~² ***Outside***

Colour of light emitted: red/white/amber/~~colourless~~² ***Red, Amber, White***

Number, category and kind of light source(s): ***see test report for more details***

Lamp approved for LED substitute light source(s): ***No***

If yes, category of LED substitute light source(s)

Voltage and Wattage: ***see test report for more details***

Light source module: ~~yes/no~~² ***No***

Light source module specific identification code: ***N/A***

Only for limited mounting height of equal to or less than 750 mm above the ground, if applicable: ~~yes/no~~² ***No***

Geometrical conditions of installation and relating variations (if any): ***N/A***

Application of an electronic light source control gear/variable intensity control:

(a) being part of the lamp: ~~yes/no~~² ***N/A***

(b) being not part of the lamp: ~~yes/no~~² ***N/A***

Input voltage(s) supplied by an electronic light source control gear/variable intensity control: ***N/A***

Electronic light source control gear/variable intensity control manufacturer and identification number (when the light source control gear is part of the lamp but is not included into the lamp body): ***N/A***

Variable luminous intensity if applicable: ~~yes/no~~ ***No***

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

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9.3 The ~~front position lamp~~², rear position lamp², stop lamp²,
~~end-outline marker lamp~~², daytime running lamp² is
only for use on a vehicle fitted with a tell-tale
indicating failure: ~~yes~~/no²

No

10. Position of the approval mark:

See drawings of information document

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

N/A

12. Approval granted/~~extended~~/~~refused~~/~~withdrawn~~²

Granted

13. Approval granted for devices to be used on vehicles
already in use only, ~~yes~~/no²

No

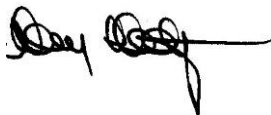
14. Place:

Dublin

15. Date:

01st November, 2022

16. Signature:



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



Approval No: **E24*148R00/03*0365*00**

Index to the Information Package

Date of issue:	<i>1st November, 2022</i>
Date of latest amendment:	<i>N/A</i>
Reason for extension/revision:	<i>N/A</i>
1. Additional conditions, and advisory notes on legal alternatives	
2. Test report(s)	
- numbers(s):	<i>CN-112-17-36-COM22-04422-FIR</i>
- date of issue:	<i>20.10.2022</i>
- date of latest amendment:	<i>N/A</i>
3. Information document	
- number(s):	<i>NV-TRL514-00</i>
- date of issue:	<i>20.09.2022</i>
- date of latest amendment:	<i>N/A</i>
Documentation:	<i>34 pages</i>



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Appendix: **Additional conditions, and advisory notes on legal alternatives**

A: Additional conditions:

1. The lamp, Type *NV-TRL514* 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

Direction Indicators (Lamps) For Power-Driven Vehicles And Their Trailers

0. Legislation:

0.1. Requirements according to : UNECE Regulation 148.00 Supplement 4

1. General

1.1. Reason for Inspection Report : New approval / ~~Extension of approval~~ / ~~Test report only~~ / COP
1.2. Manufacturer's Representative(s) : N/A
1.3. CETOC TS Representative(s) : Xiaoli Li
1.4. Location of Inspection : GuangZhou ShunTai Quality Technical Service Co., Ltd.
Room 206A, 2F, 4# Plant, No.63 Punan Road, Huangpu District,
Guangzhou, China, 510760
1.5. Data of Inspection : 03/10/2022~ 08/10/2022

2. Manufacturer Details

2.1. Trade Name : NVEL
2.2. Type : NV-TRL514
2.3. Variant/Version : N/A
2.4. Category : 2a,R1,S1, AR, F1
2.5. Name and Address of manufacturer : Guangzhou New View Electrical & Lighting Co., Ltd.
Floor 1-4, Building 1, No.4, Longkou Industrial Road, Huashan
Town, Huadu District, Guangzhou City, Guangdong Province,
510880, China.

3. Conclusion:

3.1. Final conclusion of the inspection: The above mentioned type was tested in accordance with the above mentioned legislation and was found to comply in all respects. This Inspection report relates only to the items tested.

Signature: : 
Name: : Xiaoli Li
Position: : Type Approval Engineer
Place and date: : Guangzhou, 16/10/2022


Massimo Peraboni
Tech. Mgr.
Roma, 20/10/2022

4. List of annexes:

Annex Nr.	Page Nr.	Subject
Annex I	2	: Appendix 1 - Test report history
Annex II	2	: Appendix 2 - General specification
Annex III	5	: Appendix 3 - Inspection results

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APPENDIX 1 - TEST REPORT HISTORY

List this report and previous reports, with extension details.

Inspection Report Number	Reason for Extension	Date of Issue
CN-112-17-36-COM22-04422-FIR	NA	20/10/2022

APPENDIX 2 – GENERAL SPECIFICATION

1. **Worst Case Rationale** : Single specification

2. **Significant Interpretations, Alternative Test Methods, New Technologies** : N/A

3. **Summary of test results** :

3.1. Applicability

	PASS	FAIL	N/A	COVERED PREVIOUS EXTENSION	If covered previous test see approval/Report Nr.
Rear-registration plate illuminating lamp	☐	☐	☒	☐	
Front direction indicator lamp	☐	☐	☒	☐	
Rear direction indicator lamp	☒	☐	☐	☐	
Stop lamp	☒	☐	☐	☐	
Front position lamp	☐	☐	☒	☐	
Rear position lamp	☒	☐	☐	☐	
Front end-outline marker lamp	☐	☐	☒	☐	
Rear end-outline marker lamp	☐	☐	☒	☐	
Reversing lamp	☒	☐	☐	☐	
Manoeuvring lamp	☐	☐	☒	☐	
Rear fog lamp	☒	☐	☐	☐	
Parking lamp	☐	☐	☒	☐	
Daytime running lamp	☐	☐	☒	☐	
Side marker lamp	☐	☐	☒	☐	
Rear-registration plate illuminating lamp for category L vehicles	☐	☐	☒	☐	
Front direction indicator lamp for category L vehicles	☐	☐	☒	☐	
Rear direction indicator lamp for category L vehicles	☐	☐	☒	☐	
Stop lamp for category L vehicles	☐	☐	☒	☐	
Front position lamp for category L vehicles	☐	☐	☒	☐	
Rear position lamp for category L vehicles	☐	☐	☒	☐	

4. **Component Specification**

4.1 In case of a rear-registration plate illuminating lamp: : Applicable / Not Applicable



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Inspection Report Nr.: CN-112-17-36-COM22-04422-FIR
Manufacturer: Guangzhou New View Electrical & Lighting
Co., Ltd.
Type: NV-TRL514

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- 4.2 In case of a direction indicator : ~~Applicable~~ / ~~Not Applicable~~
Sequential activation of light sources : Yes / ~~No~~
- 4.3 In case of a reversing lamp: : ~~Applicable~~ / ~~Not Applicable~~
The lamp is installed on a vehicle only as part of a pair of lamps : ~~Yes~~ / No
- 4.4 In case of a manoeuvring lamp : ~~Applicable~~ / Not Applicable
The maximum mounting height : ---
- 4.5 In case of a daytime running lamp : ~~Applicable~~ / Not Applicable
Maximum luminous intensity does not exceed 700 cd: : ---
- 4.6 Signalling function and category :
- | Function(s) | Category | Color | Light source(s) | Voltage,wattage |
|--------------------------|----------|-------|---------------------------|-----------------|
| Rear direction indicator | 2a | Amber | 12 x LED, Non-replaceable | 12V/24V, 2.2W |
| Rear position lamp | R1 | Red | 34 x LED, Non-replaceable | 12V/24V, 1.6W |
| Stop lamp | S1 | Red | 12 x LED, Non-replaceable | 12V/24V, 1.6W |
| Reversing lamp | AR | White | 6 x LED, Non-replaceable | 12V/24V, 1.9W |
| Rear fog lamp | F1 | Red | 12 x LED, Non-replaceable | 12V/24V, 2.3W |
- For mounting : ~~either outside or inside or both~~
- Light source module: : ~~Yes~~ / No
- Only for limited mounting height of equal to or less than 750 mm above the ground, if applicable: : ~~Yes~~ / No
- Geometrical conditions of installation and relating variations, if any: : ---
- Application of an electronic light source control gear/~~variable intensity control~~:
Being part of the lamp: : ~~Yes~~ / No
- Input voltage(s) supplied by an electronic light source control gear/~~variable intensity control~~: : ---
- Variable luminous intensity, if applicable: : ~~Yes~~ / No
- Function(s) produced by an interdependent lamp forming part of an interdependent lamp system, if applicable: : ---
- The ~~front position lamp/ rear position lamp/ stop lamp/ end-outline marker lamp/ daytime running lamp/~~ is only for use on a vehicle fitted with a tell-tale indicating failure: : ~~Yes~~ / No
- 4.7 Vehicle Information Category : Non-Specific
Strike out what does not apply



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5. Facility and Equipment Checks

- 5.1. Calibration certificates checked and valid, recorded in the following table : Conform
- 5.2. All instruments are equipped with identification label : Yes
- 5.3. Calibration certificates are complete of calibration-chain with detailed information regarding primary used. : Yes

Description	Serial number or Certificate Nr.	Calibration due date*
Automotive and Signal Goniophotometers	CN J202206020680A-0022	06/07/2023
Photometer head	CN J202206020680-0034	13/07/2023
High Accuracy Array Spectroradiometer	CN J202206020680A-0019	06/07/2023
DC Power Supply	CN J202206020680A-0036	06/07/2023

**Specify calibrated date + (interval) or calibration due date.*

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APPENDIX 3 – INSPECTION RESULTS

		PASS	FAIL	N/A
	Markings			
3.3.4.2	Lamp bears indelible Trade Name or Trade Mark of applicant	☒	☐	☐
3.3.4.3	Lamp has non-replaceable light source or	☒	☐	☐
3.3.4.3(a)	Lamp bears marking of bulb category(ies) or	☐	☐	☒
3.3.4.3(b)	Lamp bears marking of light module identification code	☐	☐	☒
3.3.4.4	For lamps using non-replaceable light sources or light source modules, lamp bear the marking of the rated voltage and range of voltage.	☒	☐	☐
3.3.4.5	Lamp meets light source module marking requirements	☐	☐	☒
3.3.11	Approval mark meets requirements	☒	☐	☐
4	General Technical requirements			
	Each lamp submitted for approval shall conform to the requirements set forth in paragraphs 4. and 5.	☒	☐	☐
4.1	The requirements contained in sections 5 "General specifications" and 6 "Individual specifications" (and in the Annexes referenced in the said sections) of UN Regulations Nos. 48, 53, 74 or 86, and their series of amendments in force at the time of application for the lamp type approval apply to this Regulation.	☒	☐	☐
	The requirements pertinent to each lamp and to the category/ies of vehicle on which the lamp is intended to be installed shall be applied, where its verification at the moment of lamp type approval is feasible.	☒	☐	☐
4.2	The lamps 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.	☒	☐	☐
4.3	Light Sources			
4.3.1	In the case of replaceable light source(s):	☐	☐	☒
4.3.1.1	The lamp shall only be equipped with light source(s) approved according to UN Regulation No. 37 and/or UN Regulation No. 128, provided that no restriction on the use is made in UN Regulation No. 37 and its series of amendments in force at the time of application for type approval or in UN Regulation No. 128 and its series of amendments in force at the time of application for type approval.	☐	☐	☒
4.3.1.2	In the case of a light source category or categories or type(s) is restricted for use in lamps on vehicles in use and originally equipped with such lamps, the applicant for type approval of the lamp shall declare that the lamp is only intended for installation on those vehicles.	☐	☐	☒
4.3.1.3	The design of the lamp shall be such that the light source(s) can be fixed in no other position but the correct one.	☐	☐	☒
4.3.1.4	The light source(s) holder shall conform to the characteristics given in IEC Publication 60061. The holder data sheet relevant to the category of light source(s) prescribed applies.	☐	☐	☒
	Alternatively, where a category of LED substitute light source(s) is also prescribed, the holder data sheet relevant to the category of LED substitute light source(s) applies.	☐	☐	☒
4.3.2	In the case of light source modules, it shall be checked that:	☐	☐	☒
4.3.2.1	The design of the light source module(s) shall be such as:			



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Manufacturer: Guangzhou New View Electrical & Lighting
Co., Ltd.
Type: NV-TRL514

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		PASS	FAIL	N/A
(a)	That each light source module can only be fitted in no other position than the designated and correct one and can only be removed with the use of tool(s);	☐	☐	☒
(b)	If there are more than one light source module used in the housing for a lamp, light source modules having different characteristics cannot be interchanged within the same lamp housing.	☐	☐	☒
4.3.2.2	The light source module(s) shall be tamperproof.	☐	☐	☒
4.3.2.3	A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source.	☐	☐	☒
4.3.2.4	In the case of non-replaceable filament light source(s) or light source module(s) equipped with non-replaceable filament light source(s), the applicant shall annex to the type approval documentation a report, acceptable to the Authority responsible for type approval, that demonstrates compliance of these non-replaceable filament light source(s) with the requirements as specified in paragraph 4.11 of IEC 60809, Edition 3.	☐	☐	☒
4.4	Independent and interdependent lamps			
4.4.1	An assembly of two independent lamps to be type approved as lamp marked "D"	☐	☐	☒
4.4.2	An interdependent lamp system to be type approved as lamps marked "Y"	☐	☐	☒
4.5	Lamps as such grouped, combined, reciprocally incorporated			
4.5.1	Lamps having been approved as front or rear position lamps, are deemed being also approved end-outline marker lamps.	☐	☐	☒
4.5.2	Front and rear position lamps which are grouped or combined or reciprocally incorporated may also be used as end-outline marker lamps.	☐	☐	☒
4.5.3	Position lamps or daytime running lamps, which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to regulate the intensity of the light emitted, are permitted.	☐	☐	☒
4.5.4	However, in the case of rear position lamp reciprocally incorporated with a stop lamp, the lamp is either:			
	(a) a part of a multiple light source arrangement; or	☐	☐	☒
	(b) intended for use in a vehicle equipped with a failure monitoring system for that function. In either case, a note is made within the communication document.	☐	☐	☒
5.	For direction indicator lamps of categories 1, 1a, 1b, 2a or 2b the flash may be produced by sequential activation of their light sources if the following conditions are met:	☐	☐	☒
	(a) Each light source, after its activation, remains lit until the end of the ON cycle;			
	(b) The sequence of activation of the light sources produces a signal which proceeds in a uniform progressive manner from inboard towards the outboard edge of the light emitting surface;			
	(c) It is one signal with no interruption and no vertical oscillations (e.g. not more than one change of direction along the vertical axis). The distance between two adjacent / tangential distinct parts of the light emitting surface of the sequential direction indicator do not exceed 50mm, when measured perpendicularly to the reference axis, instead of the values defined in paragraph 5.7.2. of UN Regulation 48. These interruptions of the signal do not create any overlap in the vertical axis between the different parts, from			

PASS FAIL N/A

inboard towards the outboard of the vehicle, and are not be used for any other lighting
or light signalling functions;

(d) The variation shall finish no more than 200ms after the beginning of the ON cycle;

(e) The orthogonal projection of the light emitting surfaces of the direction indicator in
the direction of the axis of reference is circumscribed by a rectangle on a plane normal
to the axis of reference and having its longer sides parallel to the H-plane. The ratio of
the horizontal to the vertical sides is not less than 1.7.

Compliance to the conditions mentioned above is verified in flashing mode.



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5. Test Results

5.1 Rear direction indicator lamp (Category 2a)

For direction indicator lamps of categories 1, 1a, 1b, 2a or 2b the flash may be produced by sequential activation of their light sources if the following conditions are met:	Complies
(a) Each light source, after its activation, remains lit until the end of the ON cycle; (b) The sequence of activation of the light sources produces a signal which proceeds in a uniform progressive manner from inboard towards the outboard edge of the light emitting surface; (c) It is one signal with no interruption and no vertical oscillations (e.g. not more than one change of direction along the vertical axis). The distance between two adjacent / tangential distinct parts of the light emitting surface of the sequential direction indicator do not exceed 50mm, when measured perpendicularly to the reference axis, instead of the values defined in paragraph 5.7.2. of UN Regulation 48. These interruptions of the signal do not create any overlap in the vertical axis between the different parts, from inboard towards the outboard of the vehicle, and are not be used for any other lighting or light signalling functions; (d) The variation shall finish no more than 200ms after the beginning of the ON cycle; (e) The orthogonal projection of the light emitting surfaces of the direction indicator in the direction of the axis of reference is circumscribed by a rectangle on a plane normal to the axis of reference and having its longer sides parallel to the H-plane. The ratio of the horizontal to the vertical sides is not less than 1.7.	Yes
Compliance to the conditions mentioned above is verified in flashing mode.	

Photometric Performance

Sample 1

Test Distance : 3.16m

Test result : Pass

Test voltage : 13.5V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	10	500	226.9	225.5
10U	5R	10	500	237.2	235.8
5U	20R	5	500	174.5	173.5
5U	10R	10	500	283.5	281.8
5U	V	35	500	346.3	344.2
5U	10L	10	500	257.3	255.8
5U	20L	5	500	164.9	163.9
H	10L	17.5	500	304.8	303.0
H	5L	45	500	395.0	392.6
H	V	50	500	446.9	444.2
H	5R	45	500	430.5	427.9
H	10R	17.5	500	350.0	347.9
5D	20R	5	500	188.0	186.9
5D	10R	10	500	325.6	323.7
5D	V	35	500	414.5	412.0
5D	10L	10	500	291.0	289.3
5D	20L	5	500	170.1	169.1
10D	5L	10	500	272.8	271.2
10D	5R	10	500	285.9	284.2
All Directions Min		0.3	-	2.080	2.068
All Directions Max		-	500	465.1	462.3



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Sample 2

Test Distance : 3.16m

Test result : **Pass**

Test voltage : 28V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	10	500	273.5	272.7
10U	5R	10	500	275.9	275.1
5U	20R	5	500	178.4	177.9
5U	10R	10	500	305.2	304.3
5U	V	35	500	419.0	417.7
5U	10L	10	500	310.9	310.0
5U	20L	5	500	183.6	183.1
H	10L	17.5	500	348.0	347.0
H	5L	45	500	439.2	437.9
H	V	50	500	463.8	462.4
H	5R	45	500	418.5	417.2
H	10R	17.5	500	327.3	326.3
5D	20R	5	500	176.4	175.9
5D	10R	10	500	278.8	278.0
5D	V	35	500	365.7	364.6
5D	10L	10	500	284.1	283.3
5D	20L	5	500	176.7	176.2
10D	5L	10	500	245.8	245.1
10D	5R	10	500	245.2	244.5
All Directions Min		0.3	-	2.244	2.237
All Directions Max		-	500	472.0	470.6

Failure provisions	Complies
For direction-indicator lamps of categories 1, 1a, 1b, 2a and 2b a signal for activation of the tell-tale prescribed in paragraph 6.5.8. of UN Regulation No. 48 or paragraph 6.3.8. of UN Regulation No. 53 shall be produced if (notwithstanding the provisions stated in paragraph 4.6.): (a) Any one light source has failed; or (b) In the case of a lamp designed for only two light sources, the intensity in the axis of reference is less than 50 per cent of the minimum intensity; or (c) As a consequence of a failure of one or more light sources, the intensity in one of the following directions as indicated in paragraph 2.1. of Annex 3, is less than the minimum intensity required: (i) H=0°, V=0° (ii) H=20° to the outside of the vehicle, V= +5° (iii) H=10° to the inside of the vehicle, V= 0°.	Yes



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Colorimetric performance

The colour of the light emitted inside the field of the light distribution grid shall be **Amber**:

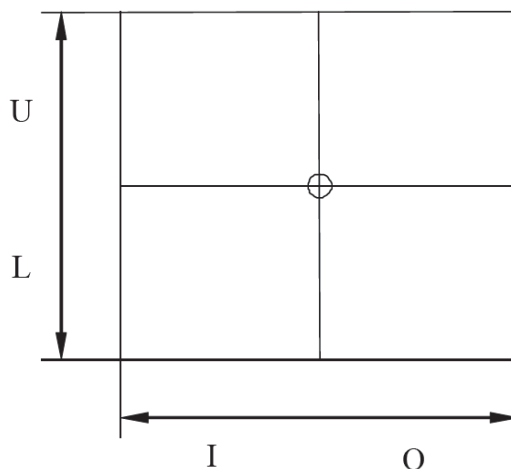
green boundary: $y \leq x - 0.120$

red boundary: $y \geq 0.390$

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

Chromatic co-ordinates	Measured values		Complies
	x	y	
Sample 1	0.5597	0.4379	Yes
Sample 2	0.5596	0.4377	Yes

Illuminating Surface



Upper boundary U (mm)	Down boundary D (mm)	Inner boundary I (mm)	Outer boundary O (mm)
7.5	7.5	110	110



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5.2 Rear position lamps(Category R1)

Photometric Performance

Sample1

Test Distance : 3.16m

Test result : **Pass**

Test voltage : 13.5V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	0.8	17	10.66	10.65
10U	5R	0.8	17	10.65	10.64
5U	20R	0.4	17	10.02	10.01
5U	10R	0.8	17	10.60	10.59
5U	V	2.8	17	10.80	10.79
5U	10L	0.8	17	10.63	10.62
5U	20L	0.4	17	10.08	10.07
H	10L	1.4	17	10.71	10.70
H	5L	3.6	17	10.84	10.83
H	V	4	17	10.90	10.89
H	5R	3.6	17	10.82	10.81
H	10R	1.4	17	10.67	10.66
5D	20R	0.4	17	10.04	10.03
5D	10R	0.8	17	10.62	10.61
5D	V	2.8	17	10.82	10.81
5D	10L	0.8	17	10.65	10.64
5D	20L	0.4	17	10.10	10.09
10D	5L	0.8	17	10.65	10.64
10D	5R	0.8	17	10.63	10.62
All Directions Min.		0.05	-	0.6713	0.6706
All Directions Max.		-	17	10.80	10.79



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Sample 2

Test Distance : 3.16m

Test result : **Pass**

Test voltage : 28V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	0.8	17	10.58	10.52
10U	5R	0.8	17	10.64	10.58
5U	20R	0.4	17	10.16	10.10
5U	10R	0.8	17	10.68	10.62
5U	V	2.8	17	10.81	10.75
5U	10L	0.8	17	10.57	10.51
5U	20L	0.4	17	9.975	9.916
H	10L	1.4	17	10.66	10.60
H	5L	3.6	17	10.83	10.77
H	V	4	17	10.97	10.90
H	5R	3.6	17	10.88	10.82
H	10R	1.4	17	10.77	10.71
5D	20R	0.4	17	10.19	10.13
5D	10R	0.8	17	10.70	10.64
5D	V	2.8	17	10.84	10.78
5D	10L	0.8	17	10.60	10.54
5D	20L	0.4	17	10.01	9.949
10D	5L	0.8	17	10.70	10.64
10D	5R	0.8	17	10.76	10.70
All Directions Min.		0.05	-	0.6196	0.6159
All Directions Max.		-	17	10.75	10.69

Failure provisions	Complies
In a single lamp containing more than one light source, a group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.	N/A
In case of failure of any one light source in a single lamp containing more than one light source, at least one of the following provisions shall apply:	Yes
(a) The light intensity complies with the minimum intensity required in the pertinent table of standard light distribution in space as shown in Annex 3 and when all light sources are illuminated the maximum intensities shall not be exceeded; or (b) A signal for activation of a tell-tale indicating failure, as indicated in paragraphs 6.4.8., 6.7.8., 6.9.8, 6.10.8., 6.11.8., 6.12.8., 6.13.8. and 6.18.8. of UN Regulation No. 48, is produced, provided that the luminous intensity in the axis of reference is at least 50 per cent of the minimum intensity required. In this case a note in the communication form states that the lamp is only for use on a vehicle fitted with a tell-tale indicating failure.	(a)



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Colorimetric performance

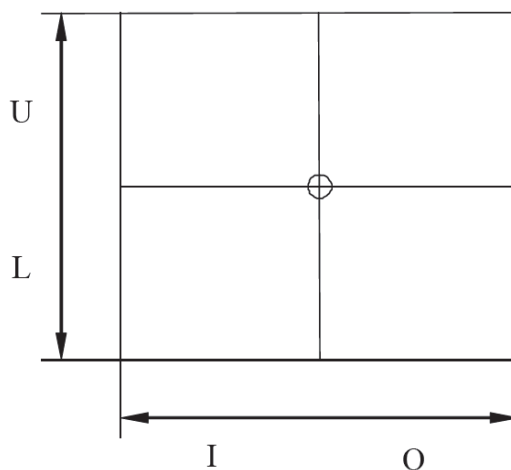
The colour of the light emitted inside the field of the light distribution grid shall be **Red**:

yellow boundary: $y \leq 0.335$

purple boundary: $y \geq 0.980 - x$

Chromatic co-ordinates	Measured values		Complies
	x	y	
Sample 1	0.7014	0.2975	Yes
Sample 2	0.7012	0.2975	Yes

Illuminating Surface



Upper boundary U (mm)	Down boundary D (mm)	Inner boundary I (mm)	Outer boundary O (mm)
54.5	54.5	135	135



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5.3 Stop lamps(Category S1)

Photometric Performance

Sample1

Test result : Pass

Test Distance : 3.16m

Test voltage : 13.5V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	12	260	76.56	76.48
10U	5R	12	260	84.49	84.41
5U	20R	6	260	40.43	40.39
5U	10R	12	260	83.74	83.66
5U	V	42	260	113.9	113.8
5U	10L	12	260	72.85	72.78
5U	20L	6	260	33.08	33.05
H	10L	21	260	81.29	81.21
H	5L	54	260	109.0	108.9
H	V	60	260	126.4	126.3
H	5R	54	260	120.1	120.0
H	10R	21	260	90.79	90.70
5D	20R	6	260	42.00	41.96
5D	10R	12	260	86.50	86.41
5D	V	42	260	119.0	118.9
5D	10L	12	260	75.56	75.48
5D	20L	6	260	34.65	34.62
10D	5L	12	260	80.96	80.88
10D	5R	12	260	88.96	88.87
All Directions Min.		0.3	-	8.063	8.055
All Directions Max.		-	260	128.3	128.2



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Sample 2

Test Distance : 3.16m

Test result : **Pass**

Test voltage : 28V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
10U	5L	12	260	84.31	83.48
10U	5R	12	260	82.04	81.23
5U	20R	6	260	37.58	37.21
5U	10R	12	260	80.61	79.81
5U	V	42	260	119.6	118.4
5U	10L	12	260	81.09	80.29
5U	20L	6	260	39.67	39.28
H	10L	21	260	87.21	86.35
H	5L	54	260	118.3	117.1
H	V	60	260	129.2	127.9
H	5R	54	260	112.9	111.8
H	10R	21	260	86.80	85.94
5D	20R	6	260	36.81	36.45
5D	10R	12	260	79.99	79.20
5D	V	42	260	117.9	116.7
5D	10L	12	260	80.18	79.39
5D	20L	6	260	38.60	38.22
10D	5L	12	260	84.64	83.80
10D	5R	12	260	82.36	81.54
All Directions Min.		0.3	-	8.183	8.102
All Directions Max.		-	260	129.0	127.7

Failure provisions	Complies
In a single lamp containing more than one light source, a group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.	N/A
In case of failure of any one light source in a single lamp containing more than one light source, at least one of the following provisions shall apply:	Yes
(a) The light intensity complies with the minimum intensity required in the pertinent table of standard light distribution in space as shown in Annex 3 and when all light sources are illuminated the maximum intensities shall not be exceeded; or (b) A signal for activation of a tell-tale indicating failure, as indicated in paragraphs 6.4.8., 6.7.8., 6.9.8, 6.10.8., 6.11.8., 6.12.8., 6.13.8. and 6.18.8. of UN Regulation No. 48, is produced, provided that the luminous intensity in the axis of reference is at least 50 per cent of the minimum intensity required. In this case a note in the communication form states that the lamp is only for use on a vehicle fitted with a tell-tale indicating failure.	(a)



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Colorimetric performance

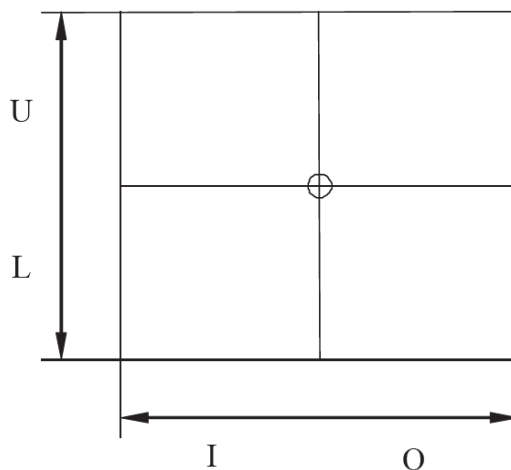
The colour of the light emitted inside the field of the light distribution grid shall be **Red**:

yellow boundary: $y \leq 0.335$

purple boundary: $y \geq 0.980 - x$

Chromatic co-ordinates	Measured values		Complies
	x	y	
Sample 1	0.6970	0.3020	Yes
Sample 2	0.6970	0.3021	Yes

Illuminating Surface



Upper boundary U (mm)	Down boundary D (mm)	Inner boundary I (mm)	Outer boundary O (mm)
54.5	54.5	28.5	28.5



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5.4 Reversing lamp (Category AR)

Photometric Performance

Sample1

Test Distance : 3.16m

Test result : Pass

Test voltage : 13.5V

Point of the measurement		Limits [cd]		Measured values [cd]		
		Min.	Max.	After 1 min	After 10 min	After stability occurred
H	V	10	300	285.8	285.6	284.4

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 10 min
10U	10L	10	300	95.23	95.14
10U	V	15	300	106.6	105.5
10U	10R	10	300	100.7	100.6
5U	45R	15	300	28.22	28.16
5U	10R	20	300	190.1	189.9
5U	V	25	300	208.3	208.2
5U	10L	20	300	189.0	189.0
5U	45L	15	300	25.49	25.49
H	45L	15	300	28.86	28.86
H	30L	25	300	81.85	81.83
H	10L	50	300	252.8	252.7
H	V	80	300	285.8	285.6
H	10R	50	300	252.6	252.4
H	30R	25	300	88.20	88.08
H	45R	15	300	29.75	29.74
5D	45R	15	600	29.98	29.99
5D	30R	25	600	77.58	77.73
5D	10R	50	600	210.6	210.5
5D	V	80	600	234.3	234.2
5D	10L	50	600	206.0	205.8
5D	30L	25	600	81.44	81.39
5D	45L	15	600	26.46	26.41
in and above the horizontal plane		-	300	288.0	288.2
between h-h and 5D		-	600	289.0	289.2
below 5D		-	8000	235.1	235.3



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Sample 2

Test Distance : 3.16m

Test result : **Pass**

Test voltage : 28V

Point of the measurement		Limits [cd]		Measured values [cd]		
		Min.	Max.	After 1 min	After 10 min	After stability occurred
H	V	10	300	288.1	287.9	287.9

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 10 min
10U	10L	10	300	111.0	110.4
10U	V	15	300	121.1	121.1
10U	10R	10	300	104.8	104.8
5U	45R	15	300	28.29	28.30
5U	10R	20	300	200.1	199.9
5U	V	25	300	226.0	225.8
5U	10L	20	300	200.4	200.3
5U	45L	15	300	28.89	28.88
H	45L	15	300	28.92	28.93
H	30L	25	300	83.12	83.04
H	10L	50	300	249.2	249.0
H	V	80	300	288.1	287.9
H	10R	50	300	259.5	259.5
H	30R	25	300	84.77	84.74
H	45R	15	300	30.86	30.81
5D	45R	15	600	29.31	29.00
5D	30R	25	600	81.45	81.28
5D	10R	50	600	200.7	200.4
5D	V	80	600	220.1	219.9
5D	10L	50	600	197.7	197.5
5D	30L	25	600	75.78	75.87
5D	45L	15	600	27.58	27.44
in and above the horizontal plane		-	300	290.0	290.2
between h-h and 5D		-	600	290.2	290.4
below 5D		-	8000	221.9	222.1

Failure provisions	Complies
In a single lamp containing more than one light source, a group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.	N/A
In case of failure of any one light source in a single lamp containing more than one light source, at least one of the following provisions shall apply:	Yes
(a) The light intensity complies with the minimum intensity required in the pertinent table of standard light distribution in space as shown in Annex 3 and when all light sources are illuminated the maximum intensities shall not be exceeded; or (b) A signal for activation of a tell-tale indicating failure, as indicated in paragraphs 6.4.8., 6.7.8., 6.9.8, 6.10.8., 6.11.8., 6.12.8., 6.13.8. and 6.18.8. of UN Regulation No. 48, is produced, provided that the luminous intensity in the axis of reference is at least 50 per cent of the minimum intensity required. In this case a note in the communication form states that the lamp is only for use on a vehicle fitted with a tell-tale indicating failure.	(a)



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Colorimetric performance

The colour of the light emitted inside the field of the light distribution grid shall be **White**:

green boundary: $y = 0.150 + 0.640 x$

yellowish green boundary: $y = 0.440$

yellow boundary: $x = 0.500$

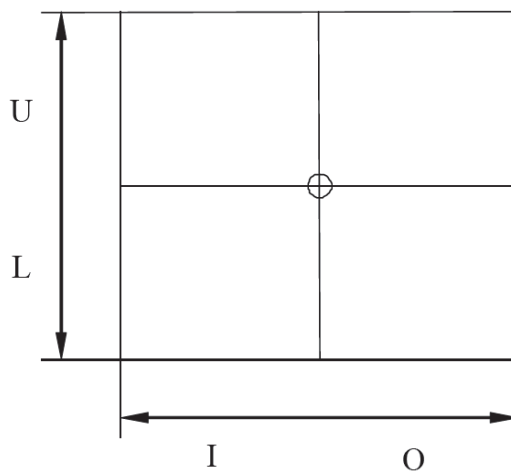
reddish purple boundary: $y = 0.382$

purple boundary: $y = 0.050 + 0.750 x$

blue boundary: $x = 0.310$

Chromatic co-ordinates	Measured values		Complies
	x	y	
Sample 1	0.3110	0.3400	Yes
Sample 2	0.3112	0.3401	Yes

Illuminating Surface



Upper boundary U (mm)	Down boundary D (mm)	Inner boundary I (mm)	Outer boundary O (mm)
14	14	35	35



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5.5 Rear fog lamps (Category F1)

Photometric Performance

Sample1

Test Distance : 3.16m

Test result : Pass

Test voltage : 13.5V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
5U	V	150	300	207.9	205.9
2.5U	5L	75	300	196.5	194.6
2.5U	5R	75	300	219.7	217.5
H	10R	150	300	210.9	208.8
H	V	150	300	287.7	284.8
H	10L	150	300	160.3	158.7
2.5D	5L	75	300	217.0	214.9
2.5D	5R	75	300	247.0	244.6
5D	V	150	300	224.1	221.8
Minimum luminous intensity within the rhombus defined by the extreme directions		75	-	161.1	159.5
All Directions Max.		-	300	295.5	292.6



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Sample 2
Test Distance : 3.16m

Test result : **Pass**
Test voltage : 28V

Point of the measurement		Limits [cd]		Measured values [cd]	
		Min.	Max.	After 1 min	After 30 min
5U	V	150	300	219.1	218.0
2.5U	5L	75	300	223.8	222.7
2.5U	5R	75	300	211.2	210.1
H	10R	150	300	169.7	168.8
H	V	150	300	292.7	291.2
H	10L	150	300	214.8	213.7
2.5D	5L	75	300	236.2	235.0
2.5D	5R	75	300	222.6	221.5
5D	V	150	300	235.0	233.8
Minimum luminous intensity within the rhombus defined by the extreme directions		75	-	164.7	163.9
All Directions Max.		-	300	291.7	290.3

Failure provisions	Complies
In a single lamp containing more than one light source, a group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.	N/A
In case of failure of any one light source in a single lamp containing more than one light source, at least one of the following provisions shall apply:	Yes
(a) The light intensity complies with the minimum intensity required in the pertinent table of standard light distribution in space as shown in Annex 3 and when all light sources are illuminated the maximum intensities shall not be exceeded; or (b) A signal for activation of a tell-tale indicating failure, as indicated in paragraphs 6.4.8., 6.7.8., 6.9.8., 6.10.8., 6.11.8., 6.12.8., 6.13.8. and 6.18.8. of UN Regulation No. 48, is produced, provided that the luminous intensity in the axis of reference is at least 50 per cent of the minimum intensity required. In this case a note in the communication form states that the lamp is only for use on a vehicle fitted with a tell-tale indicating failure.	(a)

Apparent Surface	Complies
Apparent surface in the direction of the reference axis $S \leq 140 \text{ cm}^2$	Yes

Heat Resistance Test	Complies
Heat resistance (1 hour of continuous operation). No distortion, no cracking, no colour modification.	Yes



CETOC TS

CETOC Technical Service srl
Via della Bufalotta, 374,
00139 Roma

Inspection Report Nr.: CN-112-17-36-COM22-04422-FIR
Manufacturer: Guangzhou New View Electrical & Lighting
Co., Ltd.

Type: NV-TRL514

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ISP N° 0184 E

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC

Signatory of EA, IAF and ILAC
Mutual Recognition Agreements

Colorimetric performance

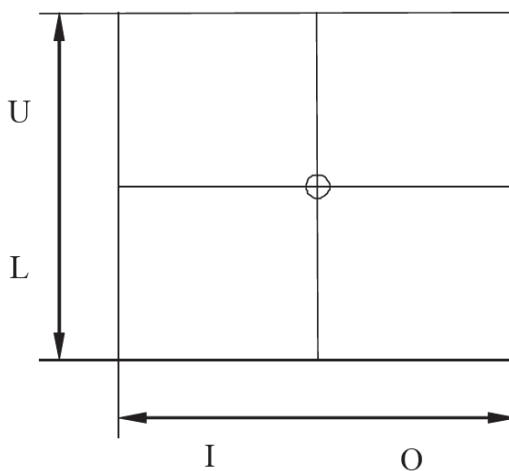
The colour of the light emitted inside the field of the light distribution grid shall be **Red**:

yellow boundary: $y \leq 0.335$

purple boundary: $y \geq 0.980 - x$

Chromatic co-ordinates	Measured values		Complies
	x	y	
Sample 1	0.6910	0.3075	Yes
Sample 2	0.6911	0.3073	Yes

Illuminating Surface



Upper boundary U (mm)	Down boundary D (mm)	Inner boundary I (mm)	Outer boundary O (mm)
31.5	31.5	50	50

Remarks

None

Note: CETOC TS apply measurement uncertainty to calibrated items but not test results.

N/A = Not Applicable

INFORMATION FOLDER

FIRST APPLICATION DATE: 20/09/2019

1. Specification data

Type		NV-TRL514					
Trade name or mark		 NVEL,					
Variants		---					
Function		Stop lamp	Rear position lamp	Rear direction indicator	Reversing lamp	Rear fog lamp	Retro-reflector
Emitted colour		Red	Red	Amber	White	Red	Red
Number and category of light source		12 x LED, Non-replaceable light source	34 x LED, Non-replaceable light source	12 x LED, Non-replaceable light source	6 x LED, Non-replaceable light source	12 x LED, Non-replaceable light source	---
Rated	Voltage	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	---
	Wattage	1.6W	1.6W	2.2W	1.9W	2.3W	---
Applicable Regulation (ECE)		R148.00 Cat. S1	R148.00 Cat.R1	R148.00 Cat.2a	R148.00 Cat. AR	R148.00 Cat. F1	R150.00 Cat. IA
Location of marking	Trade mark	Marked on Lens					
	Approval mark	Marked on Lens					

2. Construction and material

Construction	Material	Remarks
Outer lens	PC	Clear
Inner lens	PC	Stop: Red, Tail: Red, D.I: Amber, Fog: Red
Housing	PC	Black
Electrical wiring	Copper covered with insulation	---

3. Name and address of manufacturer

Guangzhou New View Electrical & Lighting Co., Ltd.

Floor 1-4, Building 1, No.4, Longkou Industrial Road, Huashan Town, Huadu District, Guangzhou City, Guangdong Province, 510880, China.

NOTE: APPROVAL MARKINGS ARE SHOWN IN THE ATTACHED DRAWINGS.
THIS INFORMATION FOLDER CONSISTS OF 6 PAGES.

ECE Approval Mark

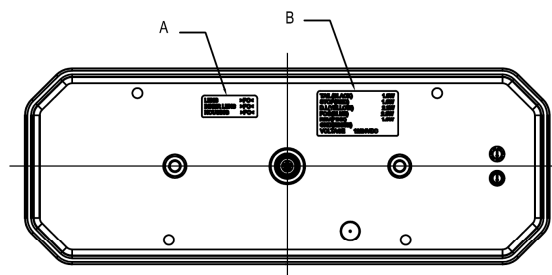
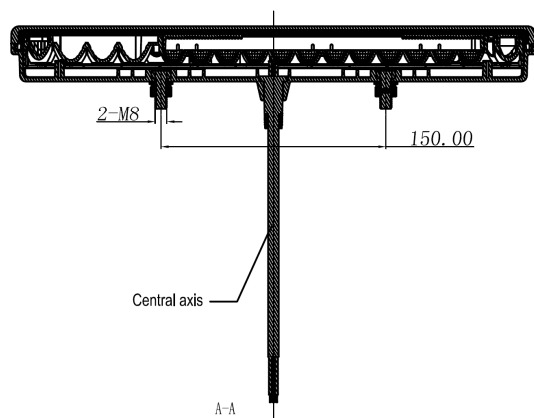
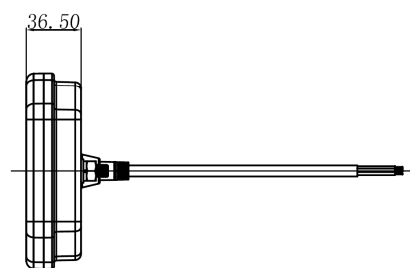
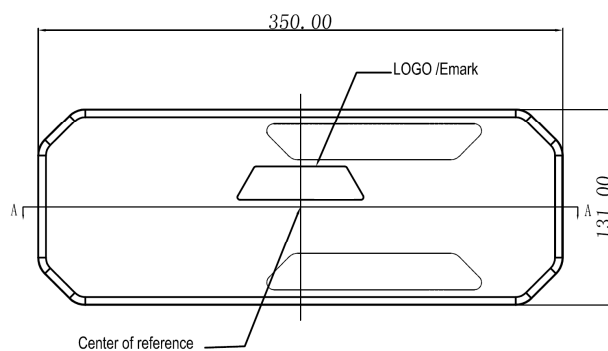
a/3 2a R1 S1 AR F1 148R00
a/3 IA 150R00

E24 XXXX a/3 a/2 a

a ≥ 5mm

LENS >PC<
INNER LENS >PC<
HOUSING >PC<

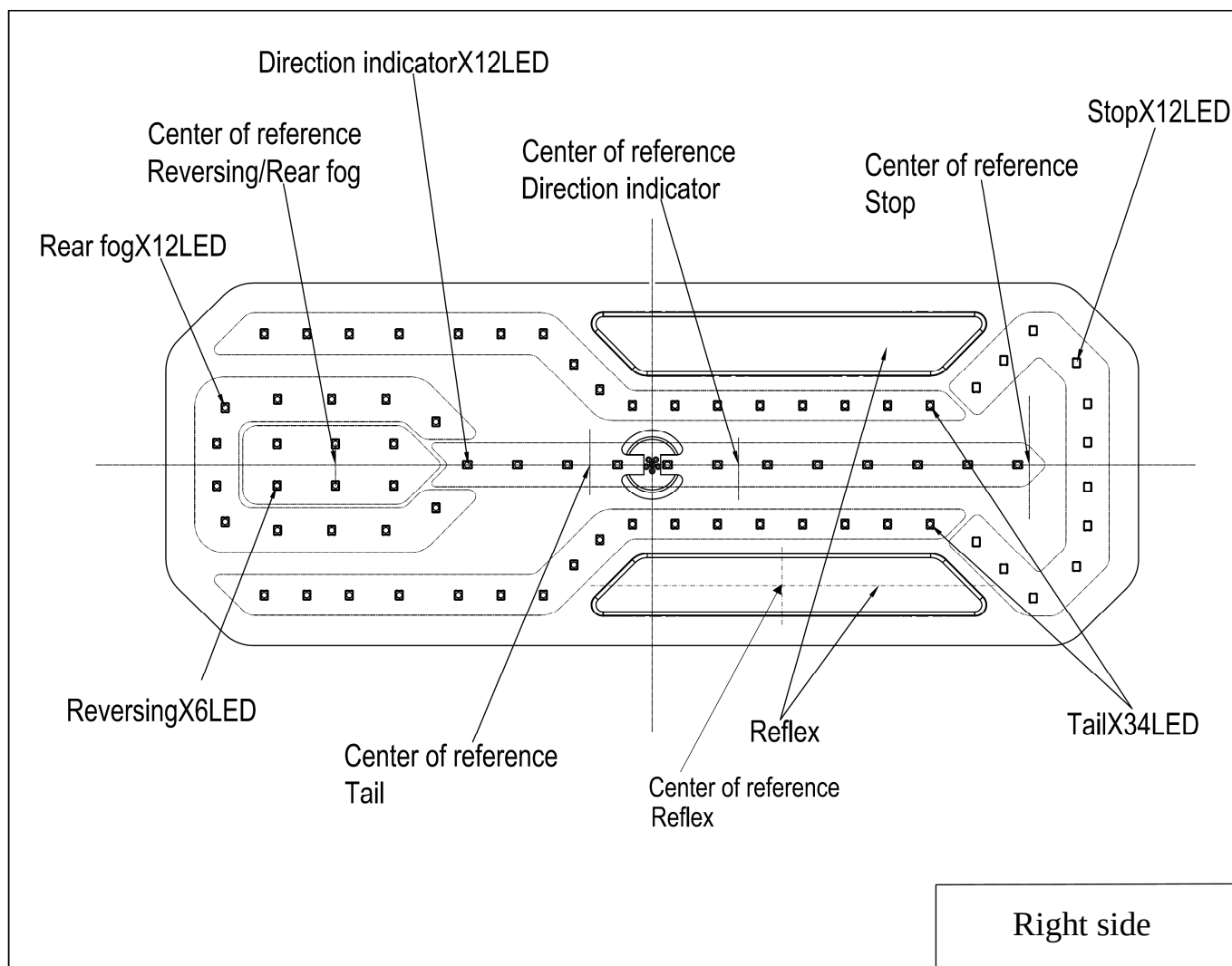
TAIL (BLACK)	1.6W
STOP (RED)	1.6W
D.I. (YELLOW)	2.2W
FOG (BLUE)	2.3W
REV (PINK)	1.9W
GND (WHITE)	
VOLTAGE	12/24VDC

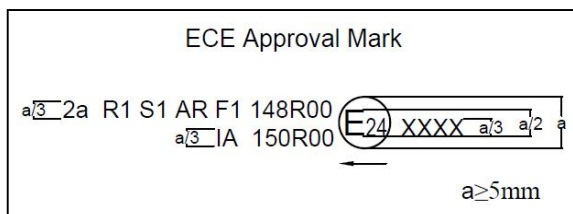


Specification:

1. Functions: Tail/Stop/Direction indicator/ Rear fog/Reversing/Reflex;
2. Input Voltage: 12/24V

Right side



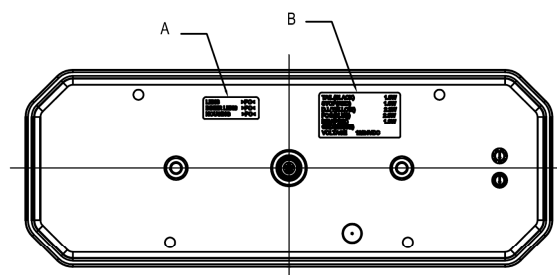
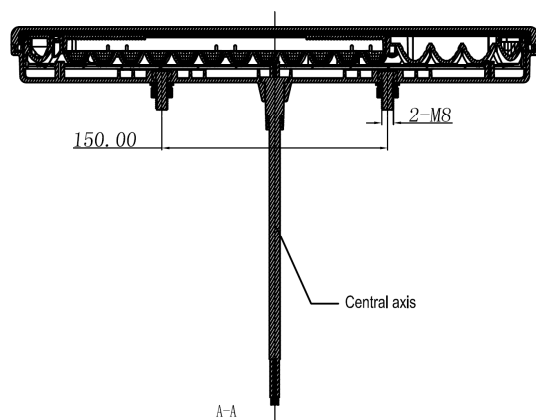
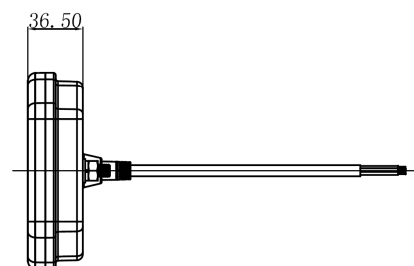
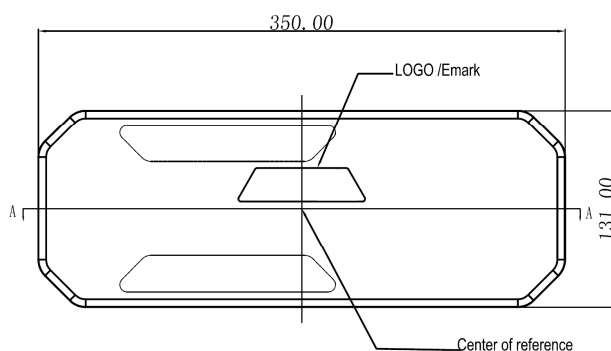


LENS >PC<
INNER LENS >PC<
HOUSING >PC<

A

TAIL (BLACK)	1.6W
STOP (RED)	1.6W
D.I. (YELLOW)	2.2W
FOG (BLUE)	2.3W
REV (PINK)	1.9W
GND (WHITE)	
VOLTAGE	12/24VDC

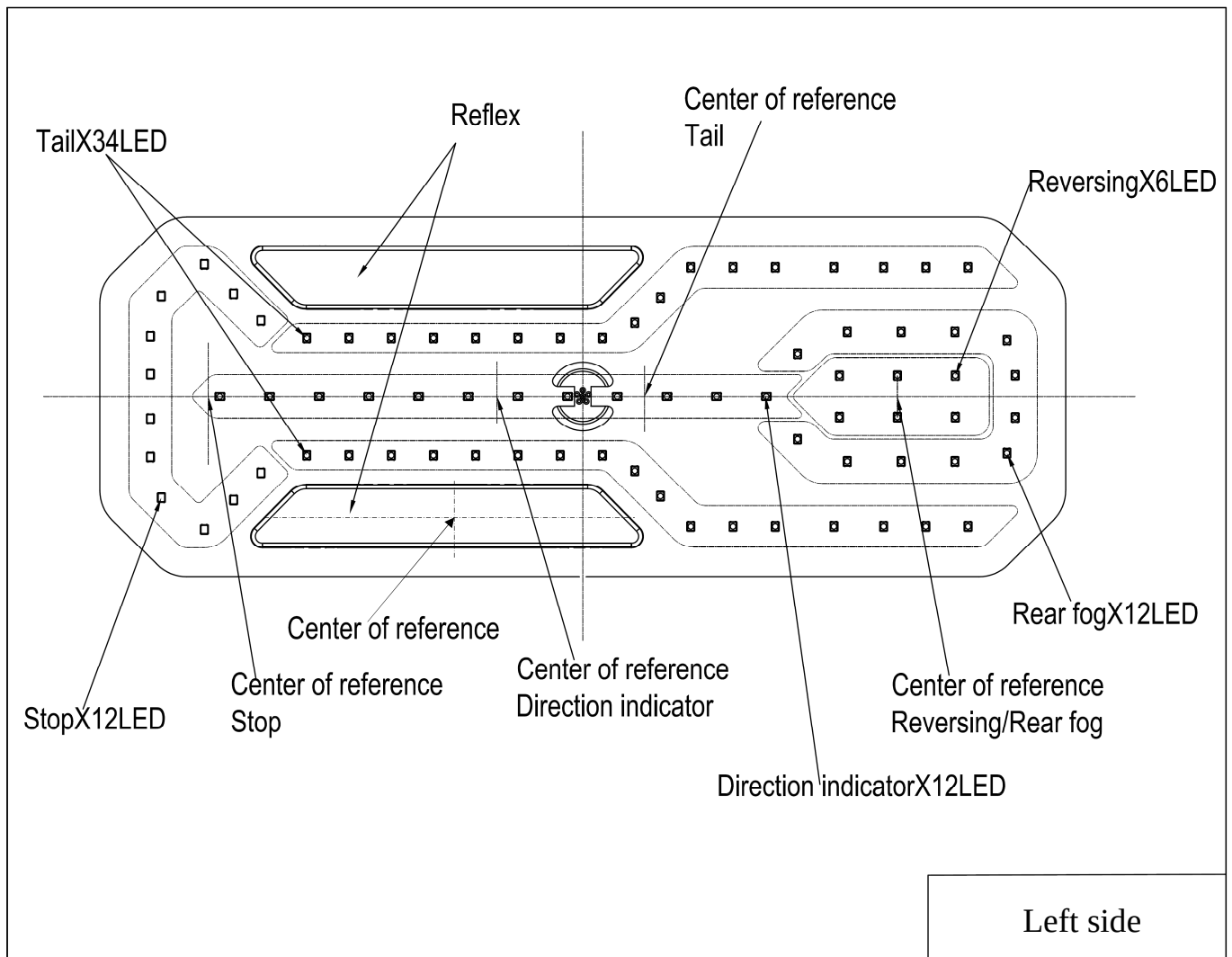
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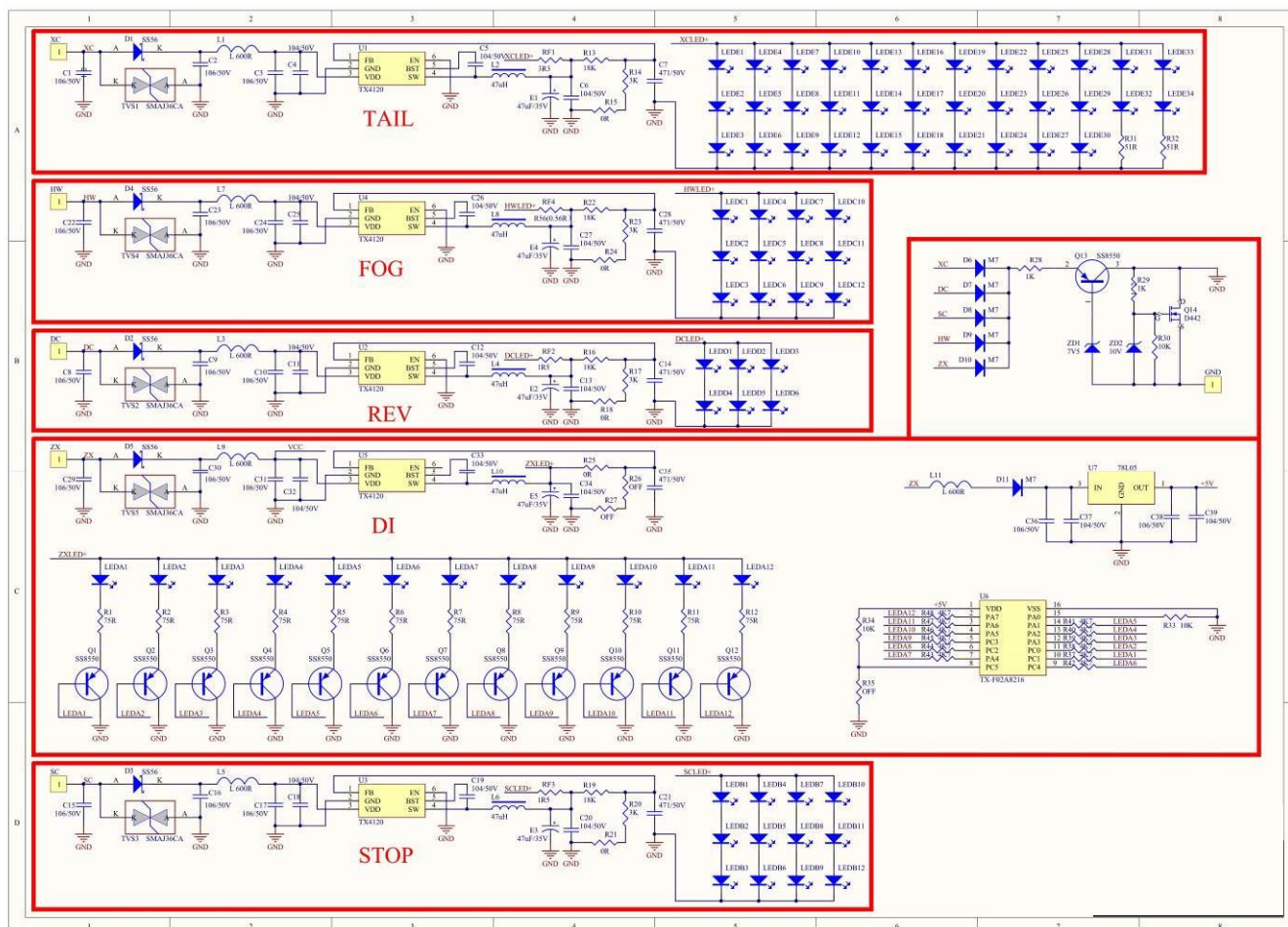
Specification:

1. Functions: Tail/Stop/Direction Indicator/ Rear fog/Reversing/Reflex;
2. Input Voltage: 12/24V

Left side



CIRCUIT DIAGRAM



12V/24V

Non-replaceable light source

INFORMATION FOLDER

FIRST APPLICATION DATE: 20/09/2019

1. Specification data

Type		NV-TRL514					
Trade name or mark		 NVEL,					
Variants		---					
Function		Stop lamp	Rear position lamp	Rear direction indicator	Reversing lamp	Rear fog lamp	Retro-reflector
Emitted colour		Red	Red	Amber	White	Red	Red
Number and category of light source		12 x LED, Non-replaceable light source	34 x LED, Non-replaceable light source	12 x LED, Non-replaceable light source	6 x LED, Non-replaceable light source	12 x LED, Non-replaceable light source	---
Rated	Voltage	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	---
	Wattage	1.6W	1.6W	2.2W	1.9W	2.3W	---
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Construction	Material	Remarks
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ECE Approval Mark

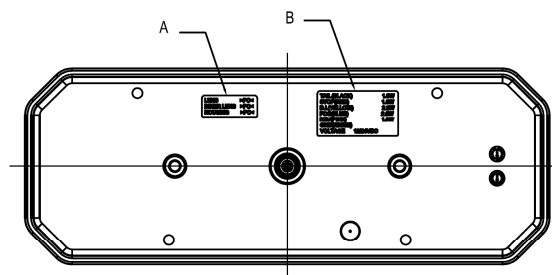
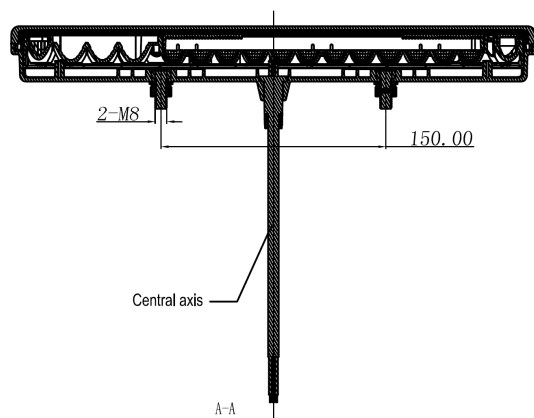
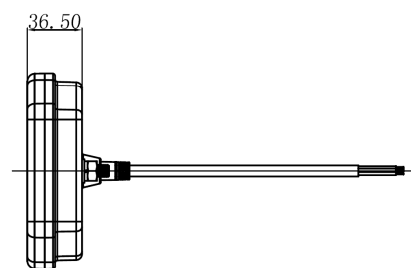
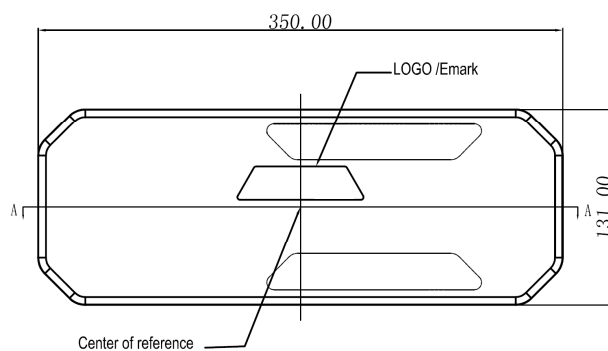
a/3 2a R1 S1 AR F1 148R00
a/3 IA 150R00

E24 XXXX a/3 a/2 a

a ≥ 5mm

LENS >PC<
INNER LENS >PC<
HOUSING >PC<

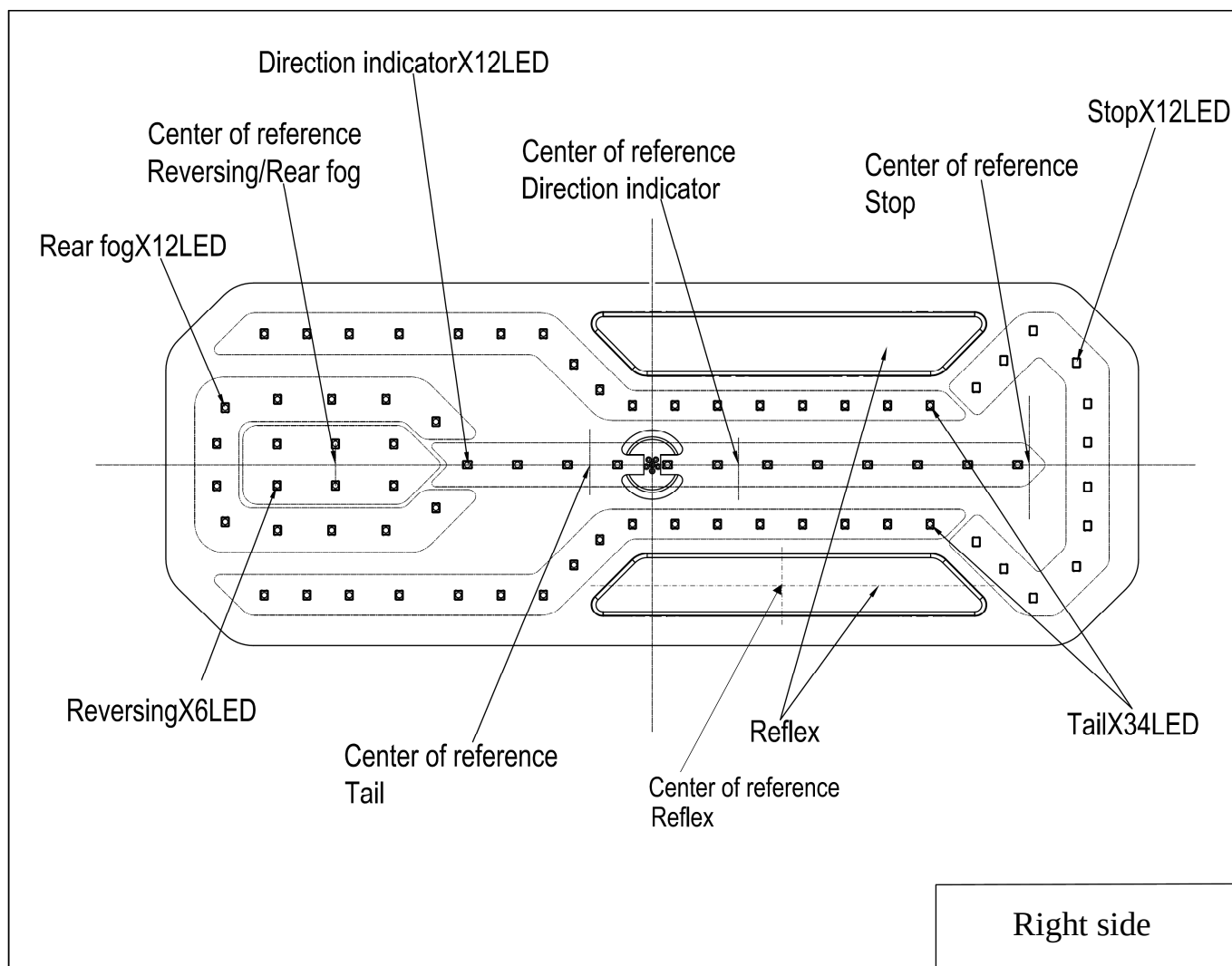
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REV (PINK)	1.9W
GND (WHITE)	
VOLTAGE	12/24VDC

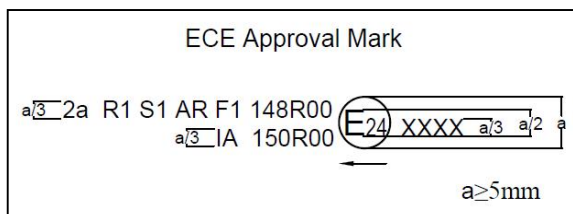


Specification:

1. Functions: Tail/Stop/Direction indicator/ Rear fog/Reversing/Reflex;
2. Input Voltage: 12/24V

Right side



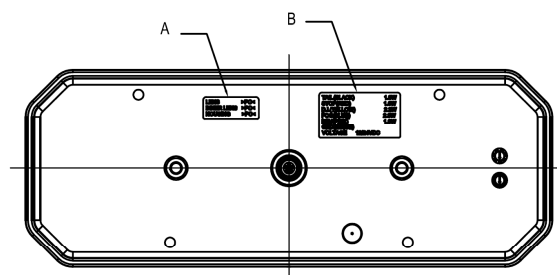
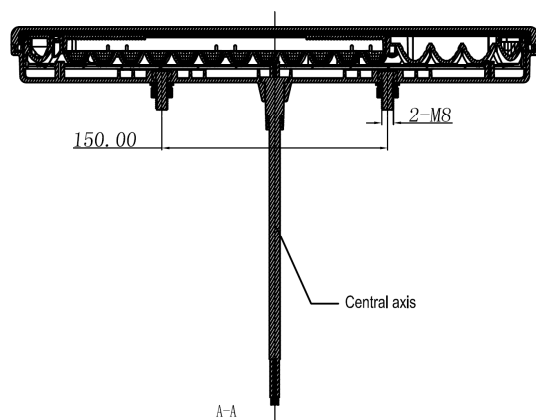
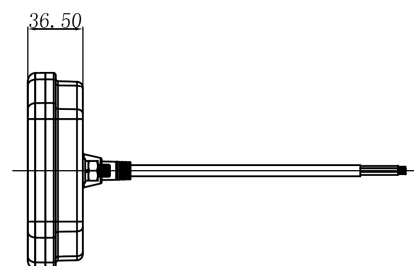
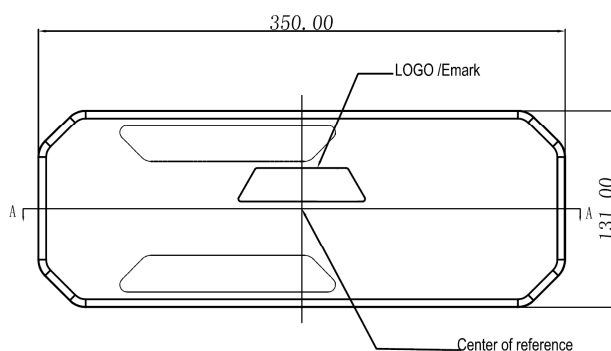


LENS >PC<
INNER LENS >PC<
HOUSING >PC<

A

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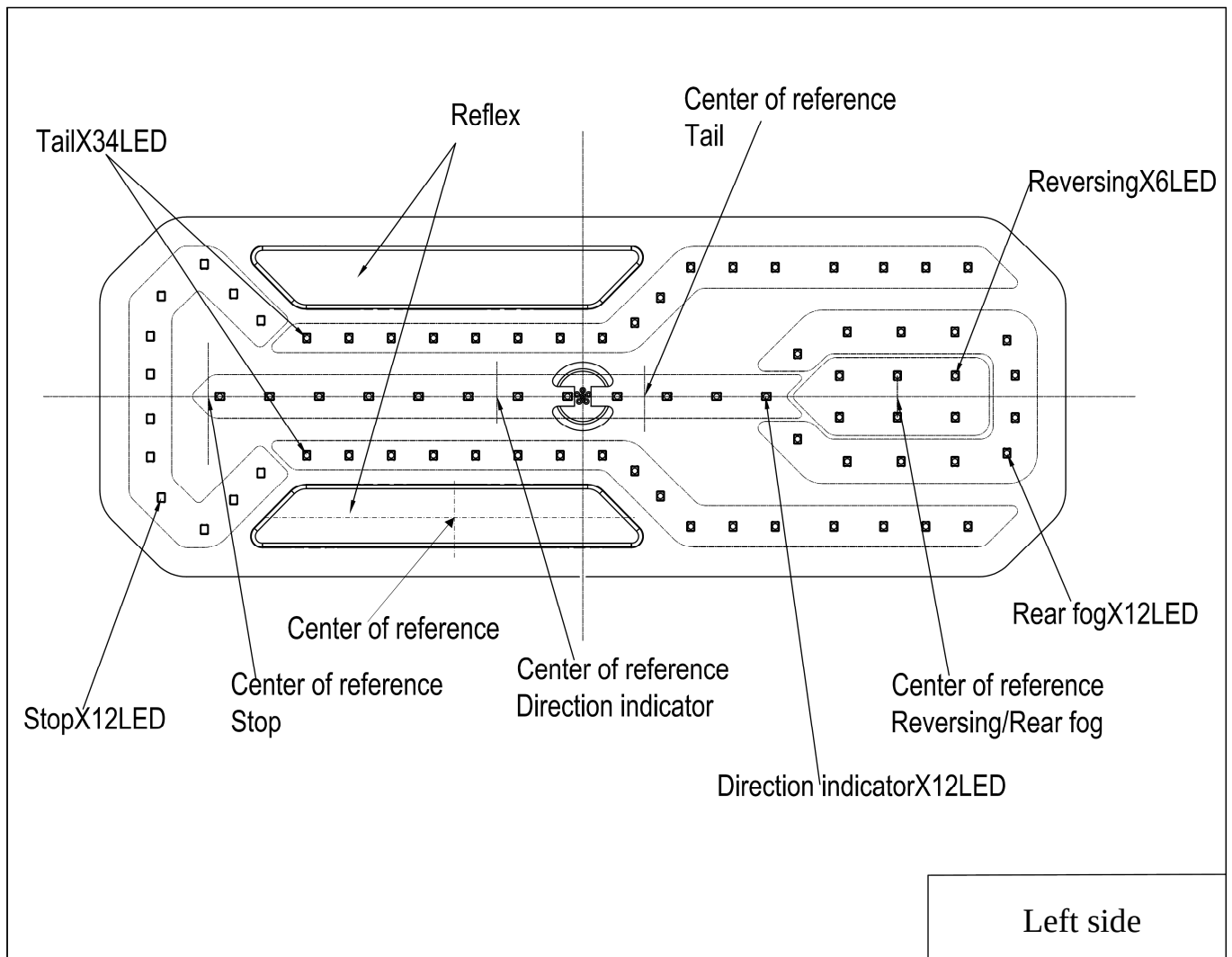
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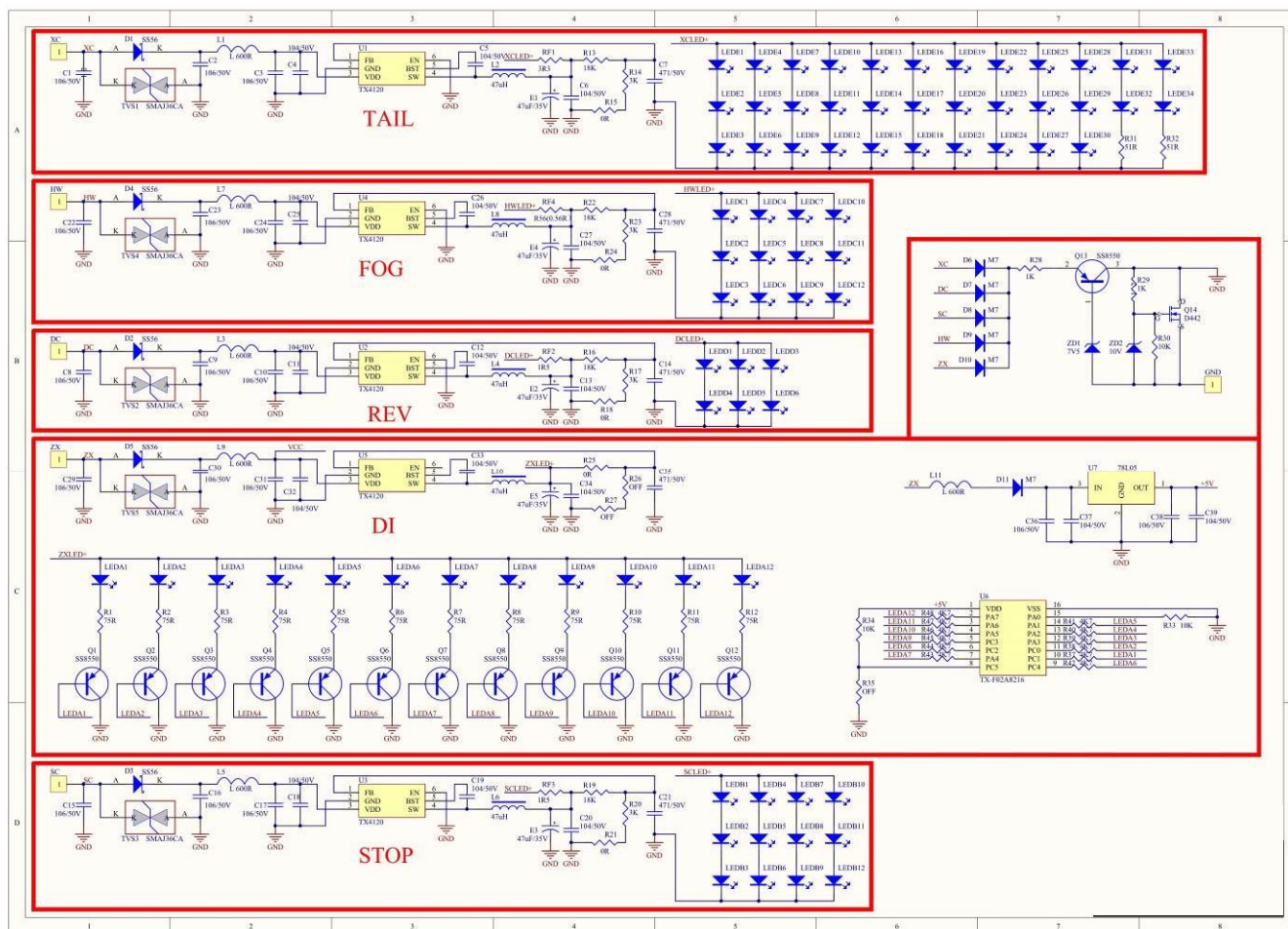
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Left side



CIRCUIT DIAGRAM



12V/24V

Non-replaceable light source