

Test Report No.: IT25/1206-00

UN-R148-01/04 - 2a

Type:

LUNGO V2.1 SL_BR_FR

Manufacturer:

KOMPLED LightSystems GmbH & Co. KG
DE-89134 Blaustein



Test Report

No. IT25/1206 Vers. 00

Agreement concerning the Adoption of Harmonized Technical United Nations Regulations for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these United Nations Regulations

**UN Regulation on uniform provisions concerning the approval of
light-signalling devices (lamps)
for power-driven vehicles and their trailers**
here: **direction indicator lamp**

UN-R148

as last amended by

of **15.11.2019**

01 series of amendments, supplement 04

of **26.09.2025**

Change Index 1

Approval status	
<input checked="" type="checkbox"/>	Granting of a type approval No. E24*148R01/04*6235*00
<input type="checkbox"/>	Extension to type approval No. _____
<input type="checkbox"/>	Correction to type approval No. _____
<input type="checkbox"/>	Documentation of test results

Structure of the Test Report

1. : General information
2. : Test object(s)
3. : Test record
4. : Enclosures
5. : Statement of conformity

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Type: LUNGO V2.1 SL_BR_FR
Manufacturer: KOMPLED Lightsystems GmbH & Co. KG
DE-89134 Blaustein

1. General information

- 1.1. Trade name or mark of the lamp : KOMPLED
opt.
- 1.2. Manufacturer's name for the type of lamp : LUNGO V2.1 SL_BR_FR
- 1.2.1. Versions : one:
- LUNGO V2.1 SL_BR_FR
- 1.3. Manufacturer's name and address : KOMPLED Lightsystems GmbH & Co. KG
Lindenstraße 15
DE-89134 Blaustein
Germany
- 1.4. If applicable, name and address of manufacturer's representative : not applicable
- 1.5. Information document
- No. : 25-1206-00
- Date of issue : 22.10.2025
- Date of last change : not applicable

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2. Test object(s)

The following description is only for the tested version/function. The complete list of versions/variants/functions included within the approval is mentioned under No. 1.2.1. of this test report or in the information document.

2.1. Description of the device

Group (grouped / combined / reciprocally incorporated) lamps consisting of:

Single device consisting of:

direction indicator lamp category 2a

grouped with:

- rear position lamp category R1
- stop lamp category S1

reciprocally incorporated with:

- not applicable

combined with:

- not applicable

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2.2. Description of object(s) under test

Commercial description : LUNGO V2.1 SL_BR_FR

Version : - LUNGO V2.1 SL_BR_FR
(sample: 10, 18)

Outer lens material : PC

Inner lens material (if any) : PMMA

Light guide (if any) : not applicable

Reflector/housing material : Al / plastic

Category of lamp : 2a

Sequential activation of light sources : yes
 no

Colour of light emitted : amber

Visibility angles : asymmetrical
 symmetrical

Software version and checksum (if applicable) : not applicable

Conditions of installation on the vehicle : see information document

Filament light source(s) acc. to UN-R37

: yes
 no

Number and category :

 not applicable

Colour of filament light source(s) :

uncoloured
 amber
 not applicable

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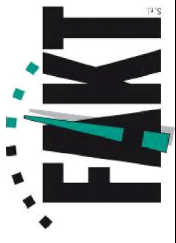
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Type: LUNGO V2.1 SL_BR_FR
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Non-replaceable filament light source(s) : yes no

Number and name : not applicable uncoloured amber not applicable

LED light source(s) acc. to UN-R128 : yes no

Number and category : not applicable not applicable

Light source module : yes no

Number and light source module : not applicable replaceable

Kind of light source(s) : non replaceable not applicable

Rated voltage or range of voltage : not applicable not applicable

Non-replaceable LED : yes no

Number of LED light source(s) : 2 not applicable

Rated voltage or range of voltage : 12V/24V not applicable

2.3. Remarks : material description and description of test object/device as indicated by the manufacturer

further description see enclosure 5 and 6 as well as the information document

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3. Test record

3.1. Equipment for measuring and testing : The equipment on which the tests were carried out fulfilled the requirements of the above-mentioned Regulation.

Statements for test

Method of measurement : see measuring sheets
The provisions set out in paragraph 4.8. of the Regulation have been met.

The following evaluations/tests were executed :

- General technical requirements according to paragraph 4. of the Regulation
- Specific technical requirements (tests) according to paragraph 5. of the Regulation

3.2. Test Results

General technical requirements:

The requirements contained in section 5. and section 6. of UN-R48 resp. UN-R86, pertinent at the moment of testing and verifiable on the lamp, are fulfilled considering the category(ies) of vehicle on which the lamp is intended to be installed.

The lamps have been so designed and constructed that in normal conditions of use and notwithstanding the vibrations to which they may be subjected in such use, they continue to operate satisfactorily and retain the characteristics prescribed by the Regulation (see also manufacturer's declaration in the information document).

The direction indicator lamp does not incorporate a logo.

The lamp is equipped with non-replaceable LED light source(s).

The specific requirements regarding EMC have been verified according to UN-R10-06 (see approval No. E24*10R06/03*2823*02).

The tests have been carried out for different installation conditions in order to cover all the mounting positions requested by the manufacturer (see information document). On the basis of the obtained test results, the mounting under those conditions does not lead us to expect intensities failing to meet the requirements.

The determined limits of the apparent surface are attached in enclosure 4.

The tests have been carried out using the light source(s) present in the lamps with 13.5V resp. 28.0V supply voltage (input terminals of electronic light source control gear).

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The colour of the light emitted has been measured inside the field of the standard light distribution defined for the specific function; in particular, the colour has been measured at the points defined at KBA-test laboratory meeting light 2017/2018.

Specific technical requirements (tests):

Par.	Description	Test result	Details
5.6.1.	Luminous intensity and standard light distribution	compliant	see enclosure 3
5.6.2.	Minimum luminous intensity within the angles of geometric visibility	compliant	see enclosure 3
5.6.3.	Minimum or maximum area of apparent surface	no requirements	
5.6.4.	Measurement	The lamps have been measured in flashing mode (the reported luminous intensity is represented by the maximum intensity)	
5.6.5.	Additional specific requirements	no	
5.6.6.	Failure provisions	compliant	In case of failure of a light source a signal for activation of the tell-tale is produced on the basis of option a) of par. 4.6.1.4. (see information document).
5.6.7.	Colour	compliant	see enclosure 2

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3.3. Test details

3.3.1. Contact person at the technical service for this approval

Name : Daniele Bono
Telephone number : +39 030 2592700
E-Mail address : dbono@fakt.srl
Place of testing : FAKT S.r.l.
Via Lithos 53
IT-25086 Rezzato (BS)
Date of testing : 11.09.2025 - 01.10.2025

3.3.4. Further details of test

Dates of receipt of test samples : 08.09.2025
01.10.2025

Specification of test condition : Ambient Temperature: 23±3°C
Relative Humidity: 50±10% UR

3.4. Remarks

The tested samples are mass produced devices (pre-series).

The fixture for the goniometer has been supplied by the applicant.

The electronic light source control gear is part of the lamp and included into the lamp body.

The lamps are part of the same assembly of grouped, combined or reciprocally incorporated lamps. Each of these lamps satisfies the requirements of the relevant regulations; more detailed test results see:

Rear position lamp:

IT25/1207-00 – type: LUNGO V2.1 SL_BR_FR

Stop lamp:

IT25/1208-00 – type: LUNGO V2.1 SL_BR_FR

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4. Enclosures

1. **List of modifications** : **08.10.2025**
2. **Enclosure Test results** : Measured colour of light emitted
3. **Enclosure Test results** : Measured intensities of light emitted
4. **Enclosure Test results** : Limits of the apparent surface
5. **Enclosure** : Photo documentation
6. **Enclosure** : Technical information about the direction indicator lamp according to Annex 1 for the communication of the UNECE approval
7. **Enclosure** : Information document

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5. Statement of conformity

The information document as specified under No. 1.5. and the type described therein are - i n c o m p l i a n c e - with the Test Specification mentioned above.

The worst-case was determined in accordance with QM-document VA110, Ed. 0, Rev. 9.

The relevant operational states as indicated by the manufacturer have been considered. The tests have been carried out, considering the relevant requirements of EN ISO/IEC 17025:2017.

This report includes pages 1 to 10.

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TEST LABORATORY

FAKT S.R.L.

Rezzato, 23.10.2025
db/mc

Reference No.:



PR-FAKT-25/0184



D. Bono
Test engineer

E-Mail: [REDACTED]
Tel: +39-030-2592700

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