

Test Report No.: IT25/1151-00
UN-R148-01/04 - AR
Type: LUNGO V2.1 RF
Manufacturer: KOMPLED Lightsystems GmbH & Co. KG
DE-89134 Blaustein



Test Report

No. IT25/1151 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: **reversing lamp**

UN-R148

of 15.11.2019

as last amended by

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*1408*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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FAKT S.r.l.
Via Lithos 53
IT-25086 Rezzato (BS)

Technischer Dienst *Technical Service*
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Registrier-Nr.: 88.1

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E24*148R01/04*1408*00

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1. General information

- 1.1. Trade name or mark of the lamp : KOMPLED
opt.
KOMP.LED
- 1.2. Manufacturer's name for the type of lamp : LUNGO V2.1 RF
- 1.2.1 Versions : one:
- LUNGO V2.1 RF
- 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. : 25-1151-00
Date of issue : 14.10.2025
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:

reversing lamp AR

2.2. Description of object(s) under test

Commercial description : LUNGO V2.1 RF

Version : - LUNGO V2.1 RF
(sample: 6, 7)

Outer lens material : PC

Inner lens material (if any) : not applicable

Light guide (if any) : not applicable

Reflector/housing material : Al / plastic

Colour of light emitted : white

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
 not applicable

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Non-replaceable filament light source(s) : yes
 no

Number and name : _____
 not applicable

Colour of filament light source(s) : uncoloured
 not applicable

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

Number and category : _____
 not applicable

Light source module : yes
 no

Number and light source module specific identification code : _____
 not applicable

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

Rated voltage or range of voltage : _____
 not applicable

Non-replaceable LED : yes
 no

Number of LED light source(s) : 4
 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 reversing 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 applicant (see information document).

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
5.8.1.	Luminous intensity and standard light distribution	compliant	see enclosure 3
5.8.2.	Minimum luminous intensity within the angles of geometric visibility	no requirements	
5.8.3.	Minimum or maximum area of apparent surface	no requirements	
5.8.4.	Measurement	no additional requirements	
5.8.5.	Additional specific requirements	no	
5.8.6.	Failure provisions	compliant	see enclosure 3
5.8.7.	Colour	compliant	see enclosure 2

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

3.3.2. Place of testing : FAKT S.r.l.
 Via Lithos 53
 IT-25086 Rezzato (BS)

3.3.3. Date of testing : 11.09.2025

3.3.4. Further details of test

Date of receipt of test sample : 01.09.2025
 Specification of test condition : Ambient Temperature: 23±2°C
 Relative Humidity: 50±5% UR

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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.

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 reversing 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 8.

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TEST LABORATORY

FAKT S.R.L.

Rezzato, 23.10.2025
et/db/mc

Reference No.:



D. Bono
Test engineer

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

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