	Test report n.	563-QL12-R03 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03

TEST REPORT Nr. 563-QL12-R03 ver. 0


GENERAL INFORMATION INFORMAZIONI GENERALI	
Addresses Indirizzi	
Applicant Richiedente	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
Manufacturer Produttore	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
Test laboratory Laboratorio di prova	Qualilab s.r.l. Via Trento, 87 25020 – Capriano del Colle (BS)
Dates Date	
Report Date Data preparazione rapporto di prova	26/01/2013
Note on new version Nota sulla nuova versione	n.a.
Equipment under test Dispositivo sottoposto a prova	
Equipment under test Dispositivo sottoposto a prova	Reflecting sheets
Type: Modello:	LARES O03 – amber LARES W03 – white LARES R03 - red
Light source: Sorgente luminosa:	---
Multimeter: Multimetro :	---
Date and method of sampling: Data e metodo di campionamento:	n.a.
Applicable norms Norme applicabili	
	Test performed according to: ECE R 3

The test results and observations indicated in this test report refer exclusively to the samples tested. It is not permitted to transfer the results to other systems or configurations.

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	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03


TEST AND RESULTS			
Test Name	Test Procedure	Test measurement	Result
LARES O03	CIL measurement in accordance to ECE R3	See Annex	N/A
LARES W03	CIL measurement in accordance to ECE R3	See Annex	N/A
LARES R03	CIL measurement in accordance to ECE R3	See Annex	N/A

STATEMENT
<p>The Test Report comprises 6 pages. The test results presented in this report relate only to the object tested.</p> <p>The English version is the only official version of this test report Questo rapporto di prova contiene 6 pagine. La versione inglese di questo rapporto di prova è l'unica versione ufficiale che fa fede.</p>

Capriano del Colle, 26/01/2013




Ing. Carsten Seyring
Testing engineer

	Test report n.	563-QL12-R03 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX I	LARES O03 - amber
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Standard ECE R 3

Sample N° 563-QL12-S03

Place of test QUALILAB s.r.l. - Via Trento, 87
25020 – Capriano del Colle (BS)

Date of test 21/01/2013 – 22/01/2013

Environmental conditions temperature 25°C

Testing instruments

Instrument	number	manufacturer	type	S/N	calibration dates	
Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14
Retro Unit	QL-IN-008	LMT	RETRO2000		09/12	09/14


Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14
Retro Unit	QL-IN-008	LMT	RETRO2000		09/12	09/14

Test procedure The sample was prepared, stabilized and measured like defined in ECE R 3
Test requirements n.a.

Test measurements The sample was mounted onto the test stand, provided by the manufacturer.
The sample was illuminated with standard illuminant A.
The sample was installed perpendicular to the light source.
Afterwards the grid, given in the ECE R3, was measured.

TEST RESULT

Functions	Min	Max	R [mcd/lx]	Unit
0.333 at H - V	450	-	1653	mcd/lx
0.333 at H - 10U	200	-	1616	mcd/lx
0.333 at H - 10D	200	-	1601	mcd/lx
0.333 at 20R - 5U	150	-	1578	mcd/lx
0.333 at 20R - 5D	150	-	1569	mcd/lx
0.333 at 20L - 5U	150	-	1576	mcd/lx
0.333 at 20L - 5D	150	-	1573	mcd/lx
1.500 at H - V	12	-	138,4	mcd/lx
1.500 at H - 10U	8	-	130,1	mcd/lx
1.500 at H - 10D	8	-	130,3	mcd/lx
1.500 at 20R - 5U	8	-	130,9	mcd/lx
1.500 at 20R - 5D	8	-	132,7	mcd/lx
1.500 at 20L - 5U	8	-	131	mcd/lx
1.500 at 20L - 5D	8	-	132,5	mcd/lx

	Test report n.	563-QL12-R03 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX II	LARES W03 - white
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Standard ECE R 3

Sample N° 563-QL12-S04

Place of test QUALILAB s.r.l. - Via Trento, 87
25020 – Capriano del Colle (BS)

Date of test 21/01/2013 – 22/01/2013

Environmental conditions temperature 25°C

Testing instruments

Instrument	number	manufacturer	type	S/N	calibration dates
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Goniometro	QL-IN-002	LMT	GOH1200		09/12 09/14
Retro Unit	QL-IN-008	LMT	RETRO2000		09/12 09/14

Test procedure The sample was prepared, stabilized and measured like defined in ECE R 3
Test requirements n.a.

Test measurements The sample was mounted onto the test stand, provided by the manufacturer.
The sample was illuminated with standard illuminant A.
The sample was installed perpendicular to the light source.
Afterwards the grid, given in the ECE R3, was measured.

TEST RESULT

Functions	Min	Max	R [mcd/lx]	Unit
0.333 at H - V	450	-	2260	mcd/lx
0.333 at H - 10U	200	-	2160	mcd/lx
0.333 at H - 10D	200	-	2180	mcd/lx
0.333 at 20R - 5U	150	-	2080	mcd/lx
0.333 at 20R - 5D	150	-	2090	mcd/lx
0.333 at 20L - 5U	150	-	2080	mcd/lx
0.333 at 20L - 5D	150	-	2090	mcd/lx
1.500 at H - V	12	-	149,3	mcd/lx
1.500 at H - 10U	8	-	134,1	mcd/lx
1.500 at H - 10D	8	-	134	mcd/lx
1.500 at 20R - 5U	8	-	136	mcd/lx
1.500 at 20R - 5D	8	-	138	mcd/lx
1.500 at 20L - 5U	8	-	136,3	mcd/lx
1.500 at 20L - 5D	8	-	138,4	mcd/lx

	Test report n.	563-QL12-R03 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX III	LARES R03 - red
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Standard ECE R 3

Sample N° 563-QL12-S05

Place of test QUALILAB s.r.l. - Via Trento, 87
25020 – Capriano del Colle (BS)

Date of test 21/01/2013 – 22/01/2013

Environmental conditions temperature 25°C

Testing instruments

Instrument	number	manufacturer	type	S/N	calibration dates
Goniometro	QL-IN-002	LMT	GOH1200		09/12 09/14
Retro Unit	QL-IN-008	LMT	RETRO2000		09/12 09/14


Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14
Retro Unit	QL-IN-008	LMT	RETRO2000		09/12	09/14

Test procedure The sample was prepared, stabilized and measured like defined in ECE R 3
Test requirements n.a.

Test measurements The sample was mounted onto the test stand, provided by the manufacturer.
The sample was illuminated with standard illuminant A.
The sample was installed perpendicular to the light source.
Afterwards the grid, given in the ECE R3, was measured.

TEST RESULT

Functions	Min	Max	R [mcd/lx]	Unit
0.333 at H - V	450	-	588	mcd/lx
0.333 at H - 10U	200	-	472	mcd/lx
0.333 at H - 10D	200	-	475	mcd/lx
0.333 at 20R - 5U	150	-	448	mcd/lx
0.333 at 20R - 5D	150	-	451	mcd/lx
0.333 at 20L - 5U	150	-	448	mcd/lx
0.333 at 20L - 5D	150	-	450	mcd/lx
1.500 at H - V	12	-	56	mcd/lx
1.500 at H - 10U	8	-	35,2	mcd/lx
1.500 at H - 10D	8	-	36	mcd/lx
1.500 at 20R - 5U	8	-	34,2	mcd/lx
1.500 at 20R - 5D	8	-	34,7	mcd/lx
1.500 at 20L - 5U	8	-	34,4	mcd/lx
1.500 at 20L - 5D	8	-	34,7	mcd/lx

	Test report n.	563-QL12-R03 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX IV	Photos
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