	Test report n.	119-QL15-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. 119-QL15-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	Ver.0: 04/02/2015
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.

The publication or duplication of this test report with enclosures, or Part of this test report or enclosures, without a written consent of the test laboratory is not permitted. The test laboratory not assumes any liability to any party for any loss, expense or damage occasioned by the use of this report. Any use of the laboratories name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by the test laboratory.

I risultati e le osservazioni indicate in questo rapporto di prova sono riferite esclusivamente ai campioni testati. Non è permesso utilizzare i risultati e le osservazioni di questo rapporto di prova per altri sistemi o configurazioni.

Non è permessa la pubblicazione o la duplicazione completa o parziale di questo rapporto di prova e dei suoi allegati senza un consenso scritto da parte del laboratorio di prova. Il laboratorio di prova non si assume responsabilità nei confronti di terzi per danni o eventuali costi derivanti dall'utilizzo dei dati presenti in questo rapporto di prova. Ogni uso del nome del laboratorio di prova e dei suoi marchi per la vendita o per pubblicizzare il prodotto testato deve essere prima approvato in forma scritta dal laboratorio di prova.

	Test report n.	119-QL15-R03 ver. 0
	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, 04/02/2015





Ing. Carsten Seyring
Testing engineer

	Test report n.	119-QL15-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																																																																																
Standard	ECE R 3																																																																																	
Sample N°	119-QL15-S03																																																																																	
Place of test	QUALILAB s.r.l. - Via Trento, 87 25020 – Capriano del Colle (BS)																																																																																	
Date of test	22/01/2015 – 26/01/2015																																																																																	
Environmental conditions	temperature 25°C																																																																																	
Testing instruments	<div>Instrument number manufacturer type S/N calibration dates</div>																																																																																	
	Goniometro	QL-IN-002	LMT	GOH1200		09/14	09/16																																																																											
	Retro Unit	QL-IN-008	LMT	RETRO2000		09/14	09/16																																																																											
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	<table><tr><th>Functions</th><th>Min</th><th>Max</th><th>R [mcd/lx]</th><th>Unit</th></tr><tr><td>0.333 at H - V</td><td>450</td><td>-</td><td>1645</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10U</td><td>200</td><td>-</td><td>1606</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10D</td><td>200</td><td>-</td><td>1594</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5U</td><td>150</td><td>-</td><td>1564</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5D</td><td>150</td><td>-</td><td>1556</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5U</td><td>150</td><td>-</td><td>1566</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5D</td><td>150</td><td>-</td><td>1558</td><td>mcd/lx</td></tr><tr><td>1.500 at H - V</td><td>12</td><td>-</td><td>139,5</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10U</td><td>8</td><td>-</td><td>130,2</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10D</td><td>8</td><td>-</td><td>130,2</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5U</td><td>8</td><td>-</td><td>131,3</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5D</td><td>8</td><td>-</td><td>132,2</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5U</td><td>8</td><td>-</td><td>130,3</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5D</td><td>8</td><td>-</td><td>132,8</td><td>mcd/lx</td></tr></table>							Functions	Min	Max	R [mcd/lx]	Unit	0.333 at H - V	450	-	1645	mcd/lx	0.333 at H - 10U	200	-	1606	mcd/lx	0.333 at H - 10D	200	-	1594	mcd/lx	0.333 at 20R - 5U	150	-	1564	mcd/lx	0.333 at 20R - 5D	150	-	1556	mcd/lx	0.333 at 20L - 5U	150	-	1566	mcd/lx	0.333 at 20L - 5D	150	-	1558	mcd/lx	1.500 at H - V	12	-	139,5	mcd/lx	1.500 at H - 10U	8	-	130,2	mcd/lx	1.500 at H - 10D	8	-	130,2	mcd/lx	1.500 at 20R - 5U	8	-	131,3	mcd/lx	1.500 at 20R - 5D	8	-	132,2	mcd/lx	1.500 at 20L - 5U	8	-	130,3	mcd/lx	1.500 at 20L - 5D	8	-	132,8	mcd/lx
	Functions	Min	Max	R [mcd/lx]	Unit																																																																													
	0.333 at H - V	450	-	1645	mcd/lx																																																																													
	0.333 at H - 10U	200	-	1606	mcd/lx																																																																													
	0.333 at H - 10D	200	-	1594	mcd/lx																																																																													
	0.333 at 20R - 5U	150	-	1564	mcd/lx																																																																													
	0.333 at 20R - 5D	150	-	1556	mcd/lx																																																																													
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	1.500 at H - V	12	-	139,5	mcd/lx																																																																													
	1.500 at H - 10U	8	-	130,2	mcd/lx																																																																													
	1.500 at H - 10D	8	-	130,2	mcd/lx																																																																													
	1.500 at 20R - 5U	8	-	131,3	mcd/lx																																																																													
	1.500 at 20R - 5D	8	-	132,2	mcd/lx																																																																													
	1.500 at 20L - 5U	8	-	130,3	mcd/lx																																																																													
1.500 at 20L - 5D	8	-	132,8	mcd/lx																																																																														

	Test report n.	119-QL15-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																																																																																	
Standard	ECE R 3																																																																																	
Sample N°	119-QL15-S04																																																																																	
Place of test	QUALILAB s.r.l. - Via Trento, 87 25020 – Capriano del Colle (BS)																																																																																	
Date of test	22/01/2015 – 26/01/2015																																																																																	
Environmental conditions	temperature 25°C																																																																																	
Testing instruments	Instrument number manufacturer type S/N calibration dates																																																																																	
	Goniometro	QL-IN-002	LMT	GOH1200		09/14	09/16																																																																											
	Retro Unit	QL-IN-008	LMT	RETRO2000		09/14	09/16																																																																											
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	<table><tr><th>Functions</th><th>Min</th><th>Max</th><th>R [mcd/lx]</th><th>Unit</th></tr><tr><td>0.333 at H - V</td><td>450</td><td>-</td><td>2260</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10U</td><td>200</td><td>-</td><td>2140</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10D</td><td>200</td><td>-</td><td>2160</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5U</td><td>150</td><td>-</td><td>2060</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5D</td><td>150</td><td>-</td><td>2060</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5U</td><td>150</td><td>-</td><td>2050</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5D</td><td>150</td><td>-</td><td>2070</td><td>mcd/lx</td></tr><tr><td>1.500 at H - V</td><td>12</td><td>-</td><td>146,2</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10U</td><td>8</td><td>-</td><td>133,2</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10D</td><td>8</td><td>-</td><td>133,6</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5U</td><td>8</td><td>-</td><td>135,4</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5D</td><td>8</td><td>-</td><td>137</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5U</td><td>8</td><td>-</td><td>135,5</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5D</td><td>8</td><td>-</td><td>137,6</td><td>mcd/lx</td></tr></table>							Functions	Min	Max	R [mcd/lx]	Unit	0.333 at H - V	450	-	2260	mcd/lx	0.333 at H - 10U	200	-	2140	mcd/lx	0.333 at H - 10D	200	-	2160	mcd/lx	0.333 at 20R - 5U	150	-	2060	mcd/lx	0.333 at 20R - 5D	150	-	2060	mcd/lx	0.333 at 20L - 5U	150	-	2050	mcd/lx	0.333 at 20L - 5D	150	-	2070	mcd/lx	1.500 at H - V	12	-	146,2	mcd/lx	1.500 at H - 10U	8	-	133,2	mcd/lx	1.500 at H - 10D	8	-	133,6	mcd/lx	1.500 at 20R - 5U	8	-	135,4	mcd/lx	1.500 at 20R - 5D	8	-	137	mcd/lx	1.500 at 20L - 5U	8	-	135,5	mcd/lx	1.500 at 20L - 5D	8	-	137,6	mcd/lx
	Functions	Min	Max	R [mcd/lx]	Unit																																																																													
	0.333 at H - V	450	-	2260	mcd/lx																																																																													
	0.333 at H - 10U	200	-	2140	mcd/lx																																																																													
	0.333 at H - 10D	200	-	2160	mcd/lx																																																																													
	0.333 at 20R - 5U	150	-	2060	mcd/lx																																																																													
	0.333 at 20R - 5D	150	-	2060	mcd/lx																																																																													
	0.333 at 20L - 5U	150	-	2050	mcd/lx																																																																													
	0.333 at 20L - 5D	150	-	2070	mcd/lx																																																																													
	1.500 at H - V	12	-	146,2	mcd/lx																																																																													
	1.500 at H - 10U	8	-	133,2	mcd/lx																																																																													
	1.500 at H - 10D	8	-	133,6	mcd/lx																																																																													
	1.500 at 20R - 5U	8	-	135,4	mcd/lx																																																																													
	1.500 at 20R - 5D	8	-	137	mcd/lx																																																																													
1.500 at 20L - 5U	8	-	135,5	mcd/lx																																																																														
1.500 at 20L - 5D	8	-	137,6	mcd/lx																																																																														

	Test report n.	119-QL15-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																																																																															
Standard	ECE R 3																																																																																
Sample N°	119-QL15-S05																																																																																
Place of test	QUALILAB s.r.l. - Via Trento, 87 25020 – Capriano del Colle (BS)																																																																																
Date of test	22/01/2015 – 26/01/2015																																																																																
Environmental conditions	temperature 25°C																																																																																
Testing instruments	<div>Instrument number manufacturer type S/N calibration dates</div>																																																																																
	Goniometro	QL-IN-002	LMT	GOH1200		09/14 09/16																																																																											
	Retro Unit	QL-IN-008	LMT	RETRO2000		09/14 09/16																																																																											
Test procedure	The sample was prepared, stabilized and measured like defined in ECE R 3																																																																																
Test requirements	n.a.																																																																																
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TEST RESULT	<table><tr><th>Functions</th><th>Min</th><th>Max</th><th>R [mcd/lx]</th><th>Unit</th></tr><tr><td>0.333 at H - V</td><td>450</td><td>-</td><td>587</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10U</td><td>200</td><td>-</td><td>472</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10D</td><td>200</td><td>-</td><td>475</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5U</td><td>150</td><td>-</td><td>450</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5D</td><td>150</td><td>-</td><td>451</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5U</td><td>150</td><td>-</td><td>451</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5D</td><td>150</td><td>-</td><td>451</td><td>mcd/lx</td></tr><tr><td>1.500 at H - V</td><td>12</td><td>-</td><td>56,8</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10U</td><td>8</td><td>-</td><td>35,8</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10D</td><td>8</td><td>-</td><td>36,3</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5U</td><td>8</td><td>-</td><td>34,6</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5D</td><td>8</td><td>-</td><td>34,9</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5U</td><td>8</td><td>-</td><td>34,8</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5D</td><td>8</td><td>-</td><td>35,1</td><td>mcd/lx</td></tr></table>						Functions	Min	Max	R [mcd/lx]	Unit	0.333 at H - V	450	-	587	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	-	450	mcd/lx	0.333 at 20R - 5D	150	-	451	mcd/lx	0.333 at 20L - 5U	150	-	451	mcd/lx	0.333 at 20L - 5D	150	-	451	mcd/lx	1.500 at H - V	12	-	56,8	mcd/lx	1.500 at H - 10U	8	-	35,8	mcd/lx	1.500 at H - 10D	8	-	36,3	mcd/lx	1.500 at 20R - 5U	8	-	34,6	mcd/lx	1.500 at 20R - 5D	8	-	34,9	mcd/lx	1.500 at 20L - 5U	8	-	34,8	mcd/lx	1.500 at 20L - 5D	8	-	35,1	mcd/lx
	Functions	Min	Max	R [mcd/lx]	Unit																																																																												
	0.333 at H - V	450	-	587	mcd/lx																																																																												
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	1.500 at 20R - 5D	8	-	34,9	mcd/lx																																																																												
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APPENDIX IV	Photos
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