	Test report n.	825-QL13-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. 825-QL13-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: 31/01/2014
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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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.

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	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, 31/01/2014





Ing. Carsten Seyring
Testing engineer

	Test report n.	825-QL13-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°	825-QL13-S03						
Place of test	QUALILAB s.r.l. - Via Trento, 87 25020 – Capriano del Colle (BS)						
Date of test	24/01/2014 – 27/01/2014						
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
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	-	1668	mcd/lx		
	0.333 at H - 10U	200	-	1628	mcd/lx		
	0.333 at H - 10D	200	-	1613	mcd/lx		
	0.333 at 20R - 5U	150	-	1580	mcd/lx		
	0.333 at 20R - 5D	150	-	1577	mcd/lx		
	0.333 at 20L - 5U	150	-	1587	mcd/lx		
	0.333 at 20L - 5D	150	-	1588	mcd/lx		
	1.500 at H - V	12	-	141,4	mcd/lx		
	1.500 at H - 10U	8	-	130,9	mcd/lx		
	1.500 at H - 10D	8	-	131,3	mcd/lx		
	1.500 at 20R - 5U	8	-	132,2	mcd/lx		
	1.500 at 20R - 5D	8	-	133,5	mcd/lx		
	1.500 at 20L - 5U	8	-	131,8	mcd/lx		
1.500 at 20L - 5D	8	-	133,5	mcd/lx			

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	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX II	LARES W03 - white						
Standard	ECE R 3						
Sample N°	825-QL13-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	
	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	-	2290	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	-	2100	mcd/lx	
	1.500 at H - V		12	-	147,6	mcd/lx	
	1.500 at H - 10U		8	-	134,1	mcd/lx	
	1.500 at H - 10D		8	-	133,8	mcd/lx	
	1.500 at 20R - 5U		8	-	136,6	mcd/lx	
	1.500 at 20R - 5D		8	-	137,8	mcd/lx	
	1.500 at 20L - 5U		8	-	136,2	mcd/lx	
	1.500 at 20L - 5D		8	-	138,2	mcd/lx	

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	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX III	LARES R03 - red																																																																																	
Standard	ECE R 3																																																																																	
Sample N°	825-QL13-S05																																																																																	
Place of test	QUALILAB s.r.l. - Via Trento, 87 25020 – Capriano del Colle (BS)																																																																																	
Date of test	24/01/2014 – 27/01/2014																																																																																	
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																																																																											
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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>590</td><td>mcd/lx</td></tr><tr><td>0.333 at H - 10U</td><td>200</td><td>-</td><td>473</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>451</td><td>mcd/lx</td></tr><tr><td>0.333 at 20R - 5D</td><td>150</td><td>-</td><td>452</td><td>mcd/lx</td></tr><tr><td>0.333 at 20L - 5U</td><td>150</td><td>-</td><td>449</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>55,8</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10U</td><td>8</td><td>-</td><td>35,3</td><td>mcd/lx</td></tr><tr><td>1.500 at H - 10D</td><td>8</td><td>-</td><td>36</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5U</td><td>8</td><td>-</td><td>34,5</td><td>mcd/lx</td></tr><tr><td>1.500 at 20R - 5D</td><td>8</td><td>-</td><td>34,8</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5U</td><td>8</td><td>-</td><td>34,3</td><td>mcd/lx</td></tr><tr><td>1.500 at 20L - 5D</td><td>8</td><td>-</td><td>34,8</td><td>mcd/lx</td></tr></table>							Functions	Min	Max	R [mcd/lx]	Unit	0.333 at H - V	450	-	590	mcd/lx	0.333 at H - 10U	200	-	473	mcd/lx	0.333 at H - 10D	200	-	475	mcd/lx	0.333 at 20R - 5U	150	-	451	mcd/lx	0.333 at 20R - 5D	150	-	452	mcd/lx	0.333 at 20L - 5U	150	-	449	mcd/lx	0.333 at 20L - 5D	150	-	451	mcd/lx	1.500 at H - V	12	-	55,8	mcd/lx	1.500 at H - 10U	8	-	35,3	mcd/lx	1.500 at H - 10D	8	-	36	mcd/lx	1.500 at 20R - 5U	8	-	34,5	mcd/lx	1.500 at 20R - 5D	8	-	34,8	mcd/lx	1.500 at 20L - 5U	8	-	34,3	mcd/lx	1.500 at 20L - 5D	8	-	34,8	mcd/lx
	Functions	Min	Max	R [mcd/lx]	Unit																																																																													
	0.333 at H - V	450	-	590	mcd/lx																																																																													
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	0.333 at H - 10D	200	-	475	mcd/lx																																																																													
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	0.333 at 20R - 5D	150	-	452	mcd/lx																																																																													
	0.333 at 20L - 5U	150	-	449	mcd/lx																																																																													
	0.333 at 20L - 5D	150	-	451	mcd/lx																																																																													
	1.500 at H - V	12	-	55,8	mcd/lx																																																																													
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	1.500 at H - 10D	8	-	36	mcd/lx																																																																													
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	1.500 at 20R - 5D	8	-	34,8	mcd/lx																																																																													
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	EUT/Type	Reflecting sheets O03, R03, W03

APPENDIX IV	Photos
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