	Test report n.	<b>563-QL12-R02 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Diffuse light source SC_04 (IEN 7121)

## TEST REPORT Nr. 563-QL12-R02 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	Diffuse light source
Type: Modello:	SC_04 IEN 7121
Light source: Sorgente luminosa:	---
Multimeter: Multimetro :	DMM Agilent U1253A S/N MY48430011
Date and method of sampling: Data e metodo di campionamento:	n.a.
Applicable norms Norme applicabili	
	Test performed according to: ECE R 7

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	Diffuse light source SC_04 (IEN 7121)


TEST AND RESULTS			
Test Name	Test Procedure	Test measurement	Result
Intensity distribution in [cd] at 10m distance	The sample was mounted (with the support provided by the manufacturer) on the goniometer and powered with the constant current of 4,000 A; the intensity distribution in 10m was measured and the maximum intensity was determined	$I_{\max}[\text{cd}] = 77.1 \text{ cd}$ in $0.00^\circ \text{ H}$ ; $-1.00^\circ \text{ V}$	N/A
Calibration to standard illuminant A	The sample was mounted on the goniometer; the current to emit standard illuminant A in the optical axis was determined	$\text{CCT} = 2.858 \text{ K}$ $I_{\text{illuminant A}}[\text{A}] = 4,0887 \text{ A}$	N/A
Intensity distribution in [cd] at 10m distance at illuminant A	The sample was mounted on the goniometer; the current to emit standard illuminant A was applied, the maximum intensity was measured	$I_{\text{illuminant A}}[\text{A}] = 4,0887 \text{ A}$ $I_{\max\_A}[\text{cd}] = 87.4 \text{ cd}$	N/A

STATEMENT
<p>The Test Report comprises 6 pages.</p> <p>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</p> <p>Questo rapporto di prova contiene 6 pagine.</p> <p>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.	<b>563-QL12-R02 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Diffuse light source SC_04 (IEN 7121)

<b>APPENDIX I</b>	<b>SC.04 – intensity [cd]</b>
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Standard ECE R 7

Sample N° 563-QL12-S02

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
DMM Agilent	---	Agilent	U1253A	MY48430011	

Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14
DMM Agilent	---	Agilent	U1253A	MY48430011		

Test procedure The sample was prepared, stabilized and measured like defined in ECE R 7


Test requirements n.a.

Test measurements

The sample was mounted onto the test stand, provided by the manufacturer. The sample was set into the pivot point of the goniometer and the optical axis was installed perpendicular to the photometer head. The DMM was connected in series to the bulb circuit to measure the current during the test. The sample was powered with a constant current of 4,000A and the distribution was measured in order to determine the maximum intensity in [cd].

## TEST RESULT

Program:						max I scan 25-25 15-15				
max I scan										
Name:	LARES 563-QL12 SC.04 (IEN 7121) max cd 2013 at 4,0A									
Number:	constant A 4.000A									
Report:										
Test no.:										
Lamp type:										
Lamp no.:	OLSA 427-QL12-S01 SC.04									
Lamp flux:	0 lm					Operator:	Qualilab			
Voltage:	13,740 V					Date:	21/01/2013 19.05.09			
Current:	4,000 A					File:	LARES 563-QL12 SC.04 (IEN 7121) max cd 2013 at 4,0A			
Comment:	constant current 4.000A measured with: Agilent DMM mod.U1253A Sn MY48430011									
Function	Mean	Max	Value	H	V	Reaim	H	V	N.O.K.	
25L to 25R - 15D to 15U	0	0	77,1	0,00°	-1,00°					

	Test report n.	<b>563-QL12-R02 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Diffuse light source SC_04 (IEN 7121)

<b>APPENDIX II</b>	<b>SC.04 – current for standard illuminant A</b>
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Standard ECE R 7

Sample N° 563-QL12-S02

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
Spectrometer	QL-IN-009	Bentham	IDR300-PSL	11476	07/12 07/14
DMM Agilent	---	Agilent	U1253A	MY48430011	

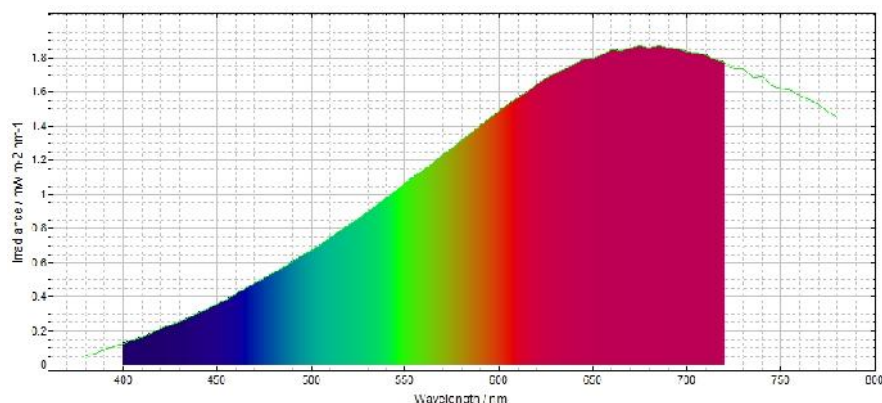
Test procedure The sample was prepared, stabilized and measured like defined in ECE R 7

Test requirements n.a.


Test measurements

The sample was mounted onto the test stand, provided by the manufacturer. The sample was set into the pivot point of the goniometer and the optical axis was installed perpendicular to the spectrometer head. The DMM was connected in series to the bulb circuit to measure the current during the test. The constant current to emit standard illuminant A was determined.

## TEST RESULT



SC04	diffuse lamp LARES			
	CCT	I[A]	color	point
ill A	2858K	4,0887A	x=0,4492	y=0,4108


	Test report n.	<b>563-QL12-R02 ver. 0</b>
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	EUT/Type	Diffuse light source SC_04 (IEN 7121)

<b>APPENDIX III</b>	<b>SC.04 – intensity [cd] at illuminant A</b>
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Standard	ECE R 7																					
Sample N°	563-QL12-S02																					
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	<table><tr><th>Instrument</th><th>number</th><th>manufacturer</th><th>type</th><th>S/N</th><th colspan="2">calibration dates</th></tr><tr><td>Goniometro</td><td>QL-IN-002</td><td>LMT</td><td>GOH1200</td><td></td><td>09/12</td><td>09/14</td></tr><tr><td>DMM Agilent</td><td>---</td><td>Agilent</td><td>U1253A</td><td>MY48430011</td><td></td><td></td></tr></table>	Instrument	number	manufacturer	type	S/N	calibration dates		Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14	DMM Agilent	---	Agilent	U1253A	MY48430011		
Instrument	number	manufacturer	type	S/N	calibration dates																	
Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14																
DMM Agilent	---	Agilent	U1253A	MY48430011																		
Test procedure	The sample was prepared, stabilized and measured like defined in ECE R 7																					
Test requirements	n.a.																					
Test measurements	<p>The sample was mounted onto the test stand, provided by the manufacturer. The sample was set into the pivot point of the goniometer and the optical axis was installed perpendicular to the photometer head.</p> <p>The DMM was connected in series to the bulb circuit to measure the current during the test.</p> <p>The sample was powered with a constant current of 4,0887A which produces standard illuminant A (2858K) and the distribution was measured in order to determine the maximum intensity in [cd].</p>																					

## TEST RESULT

Program:					max I scan 25-25 15-15				
max I scan									
Name:	LARES 563-QL12 SC.04 (IEN 7121) max cd 2013 at sta ill A								
Number:	constant A 4.0887A								
Report:									
Test no.:									
Lamp type:									
Lamp no:	OLSA 427-QL12-S01 SC.04								
Lamp flux:	0 lm				Operator:	Qualilab			
Voltage:	13,740 V				Date:	21/01/2013 19.20.10			
Current:	4.0887A				File:	LARES 563-QL12 SC.04 (IEN 7121) max cd 2013 at sta ill A			
Comment:	constant current 4.0887A sta ill A measured with: Agilent DMM mod.U1253A Sn MY48430011								
Function	Mean	Max	Value	H	V	Reaim	H	V	N.O.K.
25L to 25R - 15D to 15U	0	0	87,4	-2,00°	-1,00°				

	Test report n.	<b>563-QL12-R02 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Diffuse light source SC_04 (IEN 7121)

APPENDIX IV	Photos
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