	Test report n.	<b>119-QL15-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. 119-QL15-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	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	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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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	$I_{\max}[\text{cd}] = 76,8 \text{ cd}$ in $-1.00^\circ \text{ H}; 4.00^\circ \text{ V}$	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	$\text{CCT} = 2.854 \text{ K}$ $I_{\text{illuminant A}}[\text{A}] = 4,0966 \text{ A}$	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	$I_{\text{illuminant A}}[\text{A}] = 4,0966 \text{ A}$ $I_{\max\_A}[\text{cd}] = 88,1 \text{ cd}$	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, 04/02/2015






Ing. Carsten Seyring  
Testing engineer

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	EUT/Type	Diffuse light source SC_04 (IEN 7121)


APPENDIX I		SC.04 – intensity [cd]								
Standard		ECE R 7								
Sample N°		119-QL15-S02								
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		
		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 4,000A 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 119-QL15 SC.04 (IEN 7121) max cd 2015 at 4.00 A						
		Number:		constant A 4.00 A						
		Report:								
		Test no.:								
		Lamp type:								
		Lamp no:		SC.04						
		Lamp flux:		0 lm				Operator:		Qualilab
		Voltage:		13,740 V				Date:		22/01/2015 17.30.17
		Current:		4.00 A				File:		LARES 119-QL15 SC.04 (IEN 7121) max cd 2015 at 4.00 A
		Comment:		constant current 4.00 A measured with: Agilent DMM mod.U1253A Sn MY48430011						
		Function		Mean	Max	I	H	V	Reaim	H
25L to 25R - 15D to 15U		0	0	(49,3) 76,8	(25,00°) -1,00°	(- 15,00°) 4,00°				

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APPENDIX II	SC.04 – current for standard illuminant A					
Standard	ECE R 7					
Sample N°	119-QL15-S02					
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
	Spectrometer	QL-IN-009	Bentham	IDR300-PSL	11476	07/14 07/16
	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 spectrometer head.</p> <p>The DMM was connected in series to the bulb circuit to measure the current during the test.</p> <p>The constant current to emit standard illuminant A was determined.</p>					
TEST RESULT						
	SC04	diffuse lamp LARES				
		CCT	I[A]	color	point	
	ill A	2854K	4,0966A	x=0,4494	y=0,4118	

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APPENDIX III	SC.04 – intensity [cd] at illuminant A										
Standard	ECE R 7										
Sample N°	119-QL15-S02										
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			
	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 4,0966A which produces standard illuminant A (2854K) 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 119-QL15 SC.04 (IEN 7121) max cd 2015 at illA								
	Number:		constant A 4.0966 A								
	Report:										
	Test no.:										
	Lamp type:										
	Lamp no:		SC.04								
	Lamp flux:		0 lm				Operator:		Qualilab		
	Voltage:		13,740 V				Date:		22/01/2015 17.56.36		
	Current:		4.0966 A				File:		LARES 119-QL15 SC.04 (IEN 7121) max cd 2015 at illA		
	Comment:		constant current 4.0966 A measured with: Agilent DMM mod.U1253A Sn MY48430011								
	Function		Mean	Max	I	H	V	Reaim	H	V	N.O.K.
	25L to 25R - 15D to 15U		0	0	(56,5) 88,1	(25,00°) -2,00°	(- 15,00°) 2,00°				

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	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
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APPENDIX IV	Photos
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