	Test report n.	<b>825-QL13-R01 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)

## TEST REPORT Nr. 825-QL13-R01 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	Spot light source
Type: Modello:	SC_02 IEN 5587
Light source: Sorgente luminosa:	Philips Holland 12V 55W
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 112

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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TEST AND RESULTS			
Test Name	Test Procedure	Test measurement	Result
Illuminance distribution in [lx] at 25m distance	The samples was mounted (with the support provided by the manufacturer) on the goniometer and powered with the constant current of 4,000 A; the illuminance distribution in 25m was measured and the maximum illuminance was determined	$E_{\max} = 150.465 \text{ lx}$ in $-0.15^\circ \text{ H}$ ; $-0.70^\circ \text{ V}$	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	$\text{CCT} = 2.858 \text{ K}$ $I_{\text{illuminant A}} = 3.4308 \text{ A}$	N/A
Illuminance distribution in [lx] at 25m distance at illuminant A	The sample was mounted on the goniometer; the current to emit standard illuminant A was applied, the maximum illuminance was measured	$I_{\text{illuminant A}} = 3.4308 \text{ A}$ $E_{\max\_A} = 60.276 \text{ lx}$	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, 31/01/2014

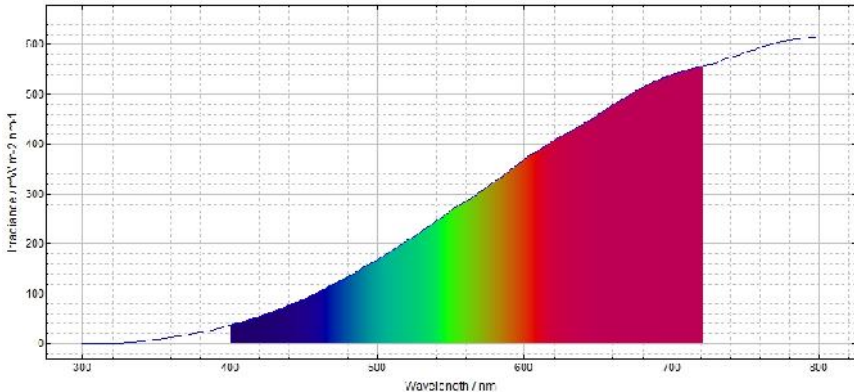




Ing. Carsten Seyring  
Testing engineer

	Test report n.	<b>825-QL13-R01 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)


APPENDIX I	SC.02 – illuminance [lx] 25m										
Standard	ECE R 112										
Sample N°	825-QL13-S01										
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				
	DMM Agilent	---	Agilent	U1253A	MY48430011						
Test procedure	The sample was prepared, stabilized and measured like defined in ECE R 112										
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 25m in order to determine the maximum illuminance in [lx].</p>										
TEST RESULT	Program:						max E scan				
	max E scan										
	Name:		LARES 825-QL13 SC.02 (IEN 5587) max E 2014 4.0A								
	Number:		constant A 4.0A								
	Report:										
	Test no.:										
	Lamp type:										
	Lamp no:		SC.02								
	Lamp flux:		0 lm		Operator:		Qualilab				
	Voltage:		0,000 V		Date:		24/01/2014 13.52.49				
	Current:		4,000 A		File:		LARES 825-QL13 SC.02 (IEN 5587) max E 2014 4.0A				
	Comment:		constant current 4.0A sta ill A measured with: Agilent DMM mod.U1253A Sn MY48430011								
	Function		Mean	Max	E	H	V	Reaim	H	V	N.O.K.
	15L to 15R - 5D to 5U (0.10)		0	0	150,465	-0,15°	-0,70°				

	Test report n.	<b>825-QL13-R01 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)

APPENDIX II		SC.02 – current for standard illuminant A																																
Standard	ECE R 112																																	
Sample N°	825-QL13-S01																																	
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	<table><thead><tr><th>Instrument</th><th>number</th><th>manufacturer</th><th>type</th><th>S/N</th><th colspan="2">calibration dates</th></tr></thead><tbody><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>Spectrometer</td><td>QL-IN-009</td><td>Bentham</td><td>IDR300-PSL</td><td>11476</td><td>07/12</td><td>07/14</td></tr><tr><td>DMM Agilent</td><td>---</td><td>Agilent</td><td>U1253A</td><td>MY48430011</td><td></td><td></td></tr></tbody></table>						Instrument	number	manufacturer	type	S/N	calibration dates		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		
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Test procedure	The sample was prepared, stabilized and measured like defined in ECE R 112																																	
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	<div></div> <div><div>SC02</div><div>spot lamp</div><div>CCT</div><div>I [A]</div><div>Color</div><div>point</div><div>ill A</div><div>2858K</div><div>3,4308A</div><div>x=0,4491</div><div>y=0,4106</div></div>																																	

	Test report n.	<b>825-QL13-R01 ver. 0</b>
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)

APPENDIX III	SC.02 – illuminance [lx] 25m at illuminant A											
Standard	ECE R 112											
Sample N°	825-QL13-S01											
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		
	DMM Agilent	---	Agilent		U1253A		MY48430011					
Test procedure	The sample was prepared, stabilized and measured like defined in ECE R 112											
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 3,4308A which produces standard illuminant A (2858K) and the distribution was measured in 25m in order to determine the maximum illuminance in [lx].											
TEST RESULT	Program:										max E scan	
	max E scan											
	Name:		LARES 825-QL13 SC.02 (IEN 5587) max E 2014 illA									
	Number:		constant A 3.4308A									
	Report:											
	Test no.:											
	Lamp type:											
	Lamp no:		SC.02									
	Lamp flux:		0 lm				Operator:		Qualilab			
	Voltage:		0,000 V				Date:		24/01/2014 13.04.18			
	Current:		3.4308A				File:		LARES 825-QL13 SC.02 (IEN 5587) max E 2014 illA			
	Comment:		constant current 3.4308A sta ill A measured with: Agilent DMM mod.U1253A Sn MY48430011									
Function		Mean	Max	E	H	V	Reaim	H	V	N.O.K.		
15L to 15R - 5D to 5U (0.10)		0	0	60,276	-0,15°	-0,70°						

	Test report n.	<b>825-QL13-R01 ver. 0</b>
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	EUT/Type	Spot light source SC_02 (IEN 5587)

APPENDIX IV	Photos
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