	Test report n.	563-QL12-R01 ver. 0
	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. 563-QL12-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: 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	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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	Test report n.	563-QL12-R01 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)


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	$E_{\max} = 152.547 \text{ lx}$ in 0.45° H ; -0.75° 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	$\text{CCT} = 2.858 \text{ K}$ $I_{\text{illuminant A}} = 3.4221 \text{ A}$	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	$I_{\text{illuminant A}} = 3.4221 \text{ A}$ $E_{\max_A} = 60.249 \text{ lx}$	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, 26/01/2013




Ing. Carsten Seyring
Testing engineer

	Test report n.	563-QL12-R01 ver. 0
	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
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Standard ECE R 112

Sample N° 563-QL12-S01

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 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 4,000A 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 563-QL12 SC.02 (IEN 5587) max E 2013 4A								
Number:	constant A 4.000A								
Report:									
Test no.:									
Lamp type:									
Lamp no:	SC.02								
Lamp flux:	0 lm				Operator:	Qualilab			
Voltage:	0,000 V				Date:	21/01/2013 18.10.16			
Current:	4,000 A				File:	LARES 563-QL12 SC.02 (IEN 5587) max E 2013 4A			
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
15L to 15R - 5D to 5U (0.10)	0	0	152.547	0,45°	-0,75°				

	Test report n.	563-QL12-R01 ver. 0
	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
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Standard ECE R 112

Sample N° 563-QL12-S01

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

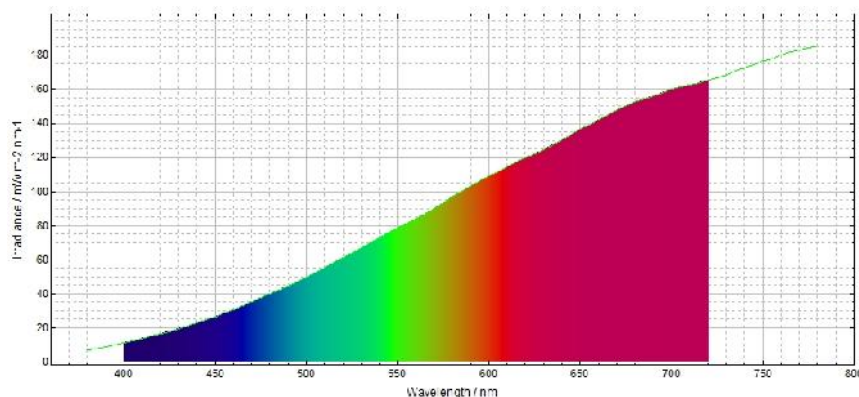
Instrument	number	manufacturer	type	S/N	calibration dates	
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Goniometro	QL-IN-002	LMT	GOH1200		09/12	09/14
Spectrometer	QL-IN-009	Bentham	IDR300-PSL	11476	07/12	07/14
DMM Agilent	---	Agilent	U1253A	MY48430011		


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



SC02	spot lamp		
	CCT	I [A]	Color point
ill A	2858K	3,4221A	x=0,4491 y=0,4106

	Test report n.	563-QL12-R01 ver. 0
	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
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Standard ECE R 112

Sample N° 563-QL12-S01

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 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 3,4221A 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								
Name:	LARES 563-QL12 SC.02 (IEN 5587) max E 2013 IIIA								
Number:	constant A 3.4221A								
Report:									
Test no.:									
Lamp type:									
Lamp no:	SC.02								
Lamp flux:	0 lm		Operator:	Qualilab					
Voltage:	0,000 V		Date:	21/01/2013 18.41.40					
Current:	3.4221A		File:	LARES 563-QL12 SC.02 (IEN 5587) max E 2013 IIIA					
Comment:	constant current 3.4221A sta ill A measured with: Agilent DMM mod.U1253A Sn MY48430011								
Function	Mean	Max	Value	H	V	Reaim	H	V	N.O.K.
15L to 15R - 5D to 5U (0.10)	0	0	60,249	0,45°	-0,75°				

	Test report n.	563-QL12-R01 ver. 0
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 Castelletto d'Erro (AL)
	EUT/Type	Spot light source SC_02 (IEN 5587)

APPENDIX IV	Photos
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