




	Test report	684-QL22-R01 ver. 0	
	Applicant	LARES di Claudio Lerici Regione Viazzi, 6 15010 - Castelletto d'Erro (AL) - Italy	
	Type	SC_02 (IEN 5587)	

TEST REPORT 684-QL22-R01 ver. 0



Addresses Indirizzi		
Applicant Richiedente	LARES di Claudio Lerici - Regione Viazzi, 6 - 15010 - Castelletto d'Erro (AL) - Italy	
Manufacturer Produttore	Same as applicant/Come il richiedente	
Dates and authorization Date e autorizzazioni		
Report Date Data emissione rapporto di prova	17/05/2022	
Written by Preparato da	Matteo Roncali	
Authorized by Autorizzato da	Ing. Michele Peschiera	
Sample under test (data declared by the applicant and under applicant's responsibility) Dispositivo sottoposto a prova (dati forniti dal richiedente e sotto la sua responsabilità)		
Sample description Descrizione dispositivo	Spot light source	
Type Modello	SC_02 (IEN 5587)	
Light source: Sorgente luminosa:	Philips Holland 12 V 55 W	
Multimeter: Multimetro :	Keysight U1253B sn MY61060043	
Illuminant A current Corrente per illuminante A	I_A : 3,491 A	
Applicable Standard Norme applicabili		
CIE 15:2018 Colorimetry and CIE 70:1987 Measurement of absolute luminous intensity distribution		

The test results and observations indicated in this test report refer exclusively to the samples as received and tested. It is not permitted to transfer the results to other systems or configurations. The publication or duplication of this test report with enclosures, or Part of this test report or enclosures, without a written consent of the test laboratory is not permitted. The test laboratory not assumes any liability to any party for any loss, expense or damage occasioned by the use of this report. Any use of the laboratories name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by the test laboratory. In case of a multilingual test report, the English version is the only official version.



I risultati e le osservazioni indicate in questo rapporto di prova sono riferiti esclusivamente ai campioni così come ricevuti e testati. Non è permesso utilizzare i risultati e le osservazioni di questo rapporto di prova per altri sistemi o configurazioni. Non è permessa la pubblicazione o la duplicazione completa o parziale di questo rapporto di prova e dei suoi allegati senza un consenso scritto da parte del laboratorio di prova. Il laboratorio di prova non si assume responsabilità nei confronti di terzi per danni o eventuali costi derivanti dall'utilizzo dei dati presenti in questo rapporto di prova. Ogni uso del nome del laboratorio di prova e dei suoi marchi per la vendita o per pubblicizzare il prodotto testato deve essere prima approvato in forma scritta dal laboratorio di prova. In caso di rapporti di prova con più lingue, la versione inglese è da considerarsi quella ufficiale.

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Annex Annesso	Test Name Identificazione prova	Test Procedure Procedura di prova	Test Requirement Requisito di prova	Verdict / Result Esito / Risultato
I	Maximum Illuminance at 25 m with 4,000 A setting	The sample was mounted (with the support provided by the manufacturer) on the goniometer and powered with the constant current of 4,000 A measured with the multimeter provided by the applicant. The illuminance distribution at 25 m was measured and the maximum illuminance was determined	Not applicable	$E_{\max} = 138,759 \text{ lx}$ -0,30° H; -0,75° V
II	CCT measurement with I_A setting	The sample was mounted on the goniometer; correlated color temperature was measured in the optical axis at the current I_A declared and measured with the multimeter provided by the applicant	Not applicable	$CCT = 2857 \text{ K}$
III	Maximum Illuminance at 25 m with I_A setting	The sample was mounted (with the support provided by the manufacturer) on the goniometer and powered with the constant current I_A measured with the multimeter provided by the applicant. The illuminance distribution at 25 m was measured and the maximum illuminance was determined	Not applicable	$E_{\max_A} = 61,561 \text{ lx}$ -0,35° H; -0,75° V
IV	Photographs	-	-	-

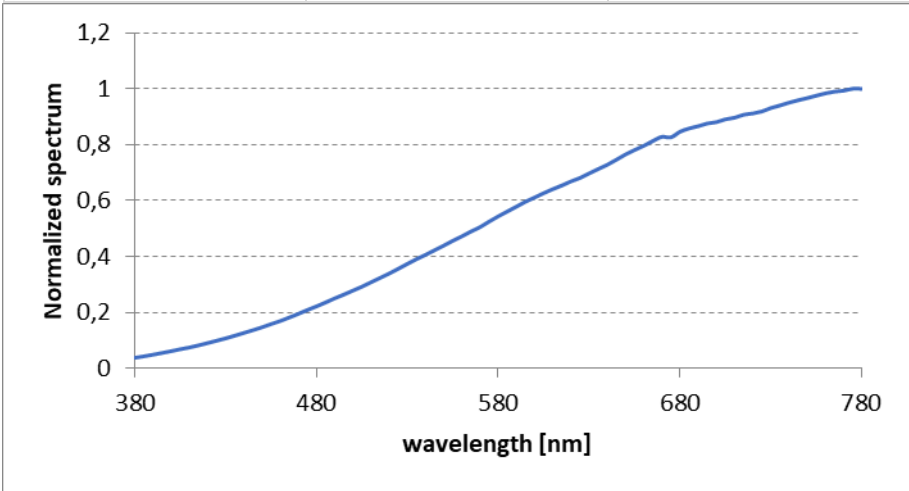
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Uncertainty Incertezza	
Photometric parameter Parametri fotometrici	Luminous intensity and illuminance/ Intensità luminosa e illuminamento = 1,9 %
Color coordinates Coordinate cromatiche	$x = 0,0007$ $y = 0,0009$
Correlated colour temperature Temperatura colore	± 21 K
Sample mounting precision Precisione montaggio dispositivo	$\pm 0,5^\circ$
Statement Dichiarazione	<p>The measured value (y) and the associated expanded uncertainty (U) represent the interval ($y \pm U$) which contains the value of the measured quantity with a probability of approximately 95 % and a coverage factor $k = 2$.</p> <p>The values into the different annex have the maximum significant figures managed by the measurement software.</p> <p>Il valore misurato (y) e l'incertezza estesa associata (U) rappresentano l'intervallo ($y \pm U$) che contiene il valore della grandezza misurata con una probabilità di circa il 95 % e un fattore di copertura $k = 2$.</p> <p>I valori negli annessi sono riportati con il massimo numero di cifre significative gestite dal software della strumentazione.</p>

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Environmental conditions	Temperature 23 °C ± 3 °C																																																																																																																																																																													
Instruments	Temperature-humidity datalogger Testo 174H QL-IN-018 Temperature-humidity datalogger Testo 174H QL-IN-020 Photogoniometer LMT GO-H 1200 QL-IN-002 Multimeter Keysight U1253B sn MY61060043																																																																																																																																																																													
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ANNEX II		CCT measurement with I_A setting
Standards and applicable points	CIE 15:2018	
Sample identification	SC_02 (IEN 5587)	
Place of testing	Qualilab Srl - Via Trento, 87 - 25020 - Capriano del Colle (BS) - Italy	
Test date	13/05/2022	
Environmental conditions	Temperature 23 °C ± 3 °C	
Instruments	Temperature-humidity datalogger Testo 174H QL-IN-021 Spectrometer BENTHAM IDR3000-PSL QL-IN-009 Multimeter Keysight U1253B sn MY61060043	
Test procedure	<p>The sample was mounted on the goniometer; correlated color temperature was measured in the optical axis at the current I_A declared and measured with the multimeter provided by the applicant.</p> <p>The sample was set into the pivot point of the goniometer and the optical axis was installed perpendicular to the spectrometer head.</p>	
Test requirements	Not applicable	
VERDICT / RESULT	SC_02 (IEN 5587)	
	CCT [K]	Color point x, y
	2857	0,4495 0,4112
		

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ANNEX III		Maximum Illuminance at 25 m with I_A setting																																																																																																																																																		
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ANNEX IV

Photographs



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