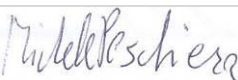


	Test report	1045-QL25-R01 ver. 0	
	Applicant	L&L Luce&Light Srl Via Trescalini, 8 36031 - Dueville (VI) - Italy	
	Type	Flori 1.2 – FS12007##	

TEST REPORT Nr. 1045-QL25-R01 ver. 0

Dates and authorization Date e autorizzazioni		
Report Date Data emissione rapporto di prova	24/07/2025	
Written by Preparato da	Leonardo Mazzucchelli	
Authorized by Autorizzato da	Ing. Michele Peschiera	
Data declared under the sole responsibility of the applicant Dati dichiarati dal richiedente e sotto la sua responsabilità		
Applicant Richiedente	L&L Luce&Light Srl - Via Trescalini, 8 - 36031 - Dueville (VI) - Italy	
Manufacturer Produttore	Same as applicant/Come il richiedente	
Sample description Descrizione campione	LED luminaire	
Type Modello	Flori 1.2 – FS12007##	
Main material Materiale principale	Die cast aluminium	
Power supply Alimentazione	DC 24 V	
Functional test Test funzionale	Sample lights up when powered	
Applicable parameter and requirement Parametri e requisiti applicabili	ANSI C136.31-2018	
Applicable standards Norme applicabili		
EN 60068-2-6:2008, ANSI C136.31-2023		

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 partial publication or duplication of this test report 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. Further information regarding the calibration status of the instrumentation, used to perform the tests, is available by sending a request through info@qualilab.it

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 parziale di questo rapporto di prova 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 rapporto di prova con più lingue, la versione inglese è da considerarsi quella ufficiale. Maggiori informazioni riguardo lo stato di taratura della strumentazione, utilizzata per l'esecuzione delle prove, sono disponibili tramite richiesta a info@qualilab.it

	Test report	1045-QL25-R01 ver. 0	 LAB N° 1235 L Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC Signatory of EA, IAF and ILAC Mutual Recognition Agreements
	Applicant	L&L Luce&Light Srl Via Trescalini, 8 36031 - Dueville (VI) - Italy	
	Type	Flori 1.2 – FS12007##	

Annex Annesso	Test Name Identificazione prova	Test Method Metodo di prova	Test Requirement Requisito di prova	Verdict / Result Esito / Risultato
I	Luminaire vibration	EN 60068-2-6:2008 Parameter: ANSI C136.31-2023 Starting frequency 5 Hz (applicant's deviation)	Sample fully operational at the end of the test No damage to the enclosure, reduction of electrical spacing, or loosening of any part of the luminaire	Pass
II	Photographs	-	-	-

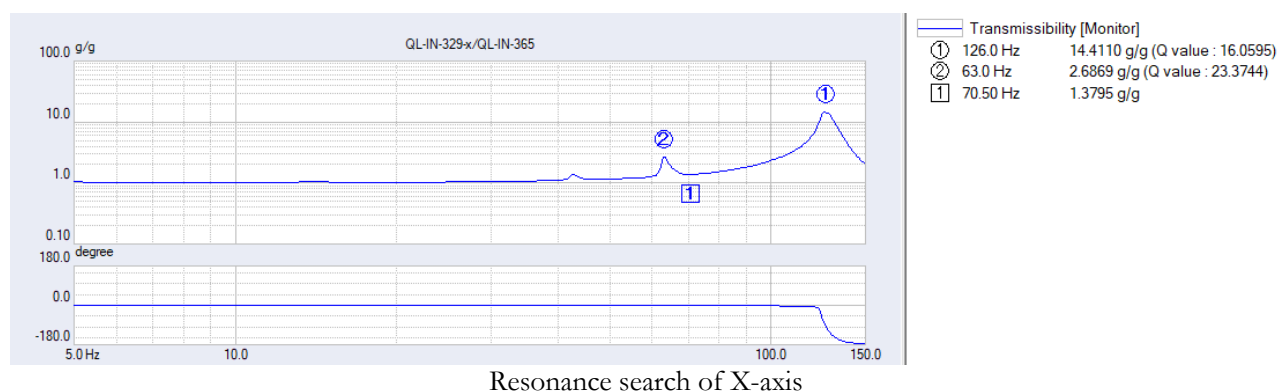
	Test report	1045-QL25-R01 ver. 0	
	Applicant	L&L Luce&Light Srl Via Trescalini, 8 36031 - Dueville (VI) - Italy	
	Type	Flori 1.2 – FS12007##	

ANNEX I		Luminaire vibration																								
Test Method	EN 60068-2-6:2008, ANSI C136.31-2023																									
Sample identification	1045-QL25-S01																									
Place of testing	Qualilab Srl - Via Trento, 87 - 25020 - Capriano del Colle (BS) - Italy																									
Test date	From 21/07/2025 to 23/07/2025																									
Environmental conditions	Temperature 25 °C ± 5 °C Relative Humidity 50 % ± 25 % Atmospheric pressure 960 mbar ± 100 mbar																									
Instruments	Vibration system QL-IN-195 Rail Table QL-IN-303 Triaxial accelerometer QL-IN-329 Accelerometer QL-IN-365 Pressure-temperature-humidity datalogger QL-IN-282 Temperature-humidity datalogger QL-IN-260																									
Test description	Sample installed on the vibration table by means of the fixture and/or fixing elements supplied by the applicant. A resonance search followed by a vibration endurance test was performed on the 3 mutual axis, X-Y-Z axis: <table><tr><th colspan="2">Resonance search parameters</th></tr><tr><td>Frequency range</td><td>From 5 Hz to 150 Hz (Applicant’s deviation)</td></tr><tr><td>Acceleration</td><td>1 g from 5 Hz to 150 Hz</td></tr><tr><td>Operating mode</td><td>Not powered</td></tr><tr><td>Sweep rate</td><td>1 oct/min</td></tr><tr><td>Sweep definition</td><td>From 5 Hz to 150 Hz</td></tr><tr><td>Alarm tolerance limit</td><td>± 0,6 dB</td></tr><tr><td>Abort tolerance limit</td><td>± 3 dB</td></tr><tr><td>Control strategy</td><td>Single point</td></tr><tr><td>Signal filters used</td><td>Lowpass filter, 2000 Hz</td></tr><tr><td>Reading points for resonance frequencies</td><td>One accelerometer was mounted on the vibration table (QL-IN-365) and the other one was mounted on the surface of the sample (QL-IN-329), see Annex II</td></tr><tr><td>Resonance criterion</td><td>Displacement amplitude at peak value and sample 90° out of phase with the exciter table</td></tr></table>		Resonance search parameters		Frequency range	From 5 Hz to 150 Hz (Applicant’s deviation)	Acceleration	1 g from 5 Hz to 150 Hz	Operating mode	Not powered	Sweep rate	1 oct/min	Sweep definition	From 5 Hz to 150 Hz	Alarm tolerance limit	± 0,6 dB	Abort tolerance limit	± 3 dB	Control strategy	Single point	Signal filters used	Lowpass filter, 2000 Hz	Reading points for resonance frequencies	One accelerometer was mounted on the vibration table (QL-IN-365) and the other one was mounted on the surface of the sample (QL-IN-329), see Annex II	Resonance criterion	Displacement amplitude at peak value and sample 90° out of phase with the exciter table
Resonance search parameters																										
Frequency range	From 5 Hz to 150 Hz (Applicant’s deviation)																									
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Operating mode	Not powered																									
Sweep rate	1 oct/min																									
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Control strategy	Single point																									
Signal filters used	Lowpass filter, 2000 Hz																									
Reading points for resonance frequencies	One accelerometer was mounted on the vibration table (QL-IN-365) and the other one was mounted on the surface of the sample (QL-IN-329), see Annex II																									
Resonance criterion	Displacement amplitude at peak value and sample 90° out of phase with the exciter table																									

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	Type	Flori 1.2 – FS12007##	

	Vibration endurance test parameters	
	Frequency range	At the resonance frequency or 30 Hz
Test requirements	Acceleration:	3 g
	Tightening torque of mounting screws	7 Nm
	Sample status during the test:	Not powered
	Alarm tolerance limit	± 0,6 dB
	Abort tolerance limit	± 3,0 dB
	Control strategy	Single point
	Signal filters used	Lowpass filter, 2000 Hz
	Test duration	100000 cycles/axis
Test measurement	Spurious motion measurement	
	Cross axis motion (all axis)	Conform (EN 60068-2-6:2008 § 4.1.2.1)

Axis	Measurement point	Resonance Frequency [Hz]	Amplification [g/g]
X	1	126,00	14,41
Y	2	62,00	18,10
Z	3	120,00	6,61

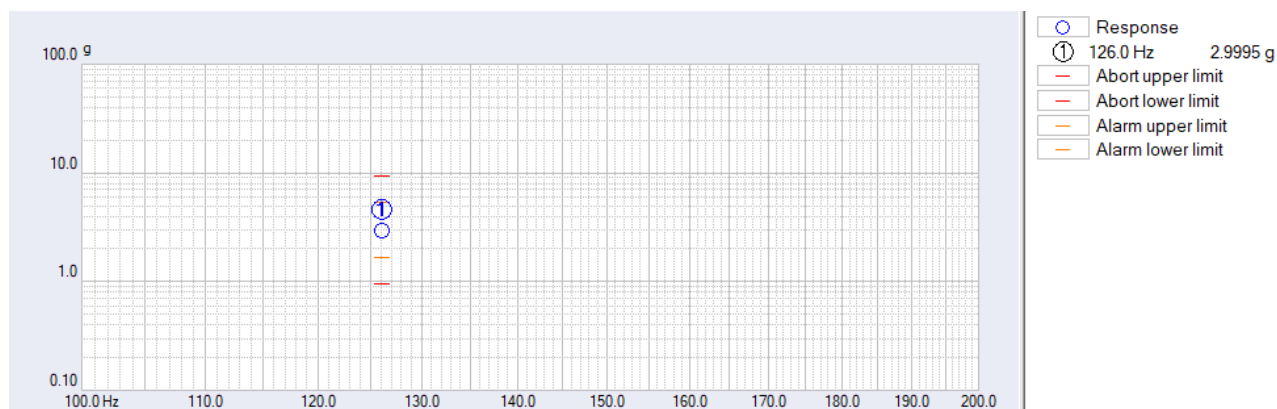


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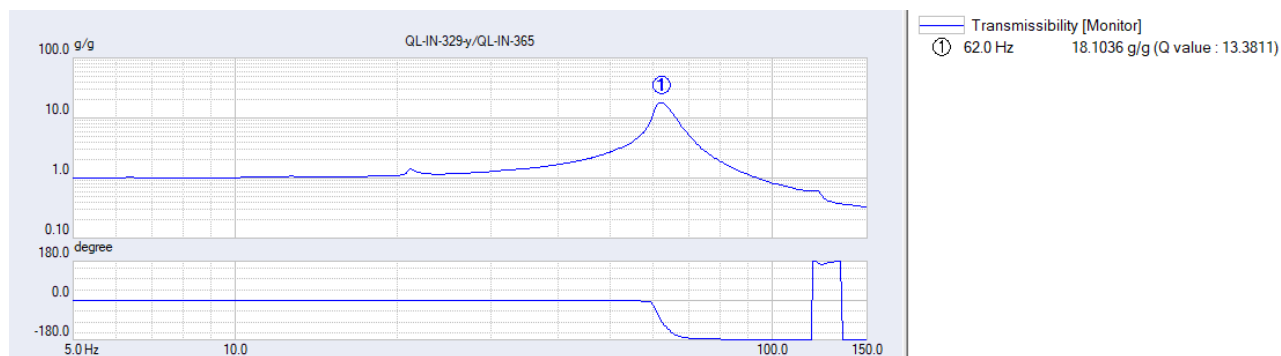
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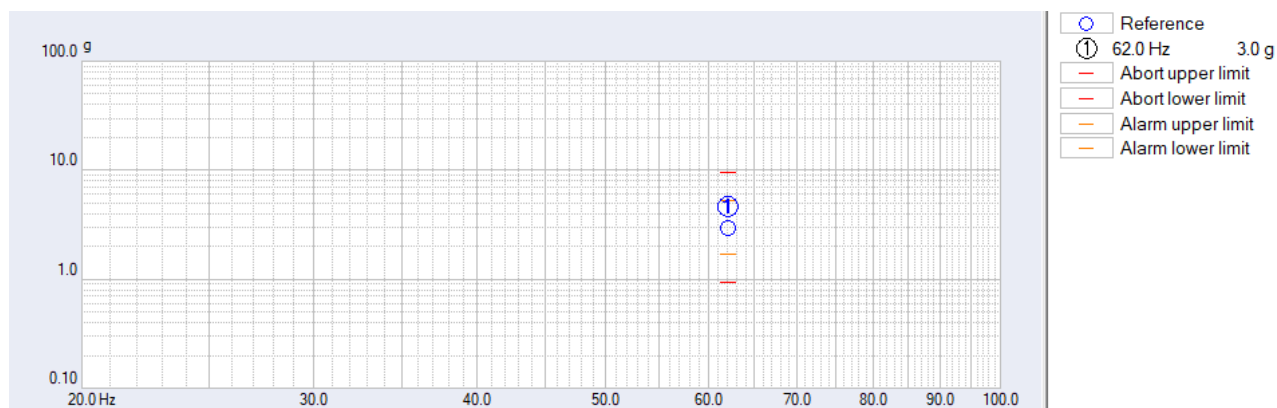
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X-axis: resonance founding. Sample was subjected to 100000 cycles at 126,00 Hz

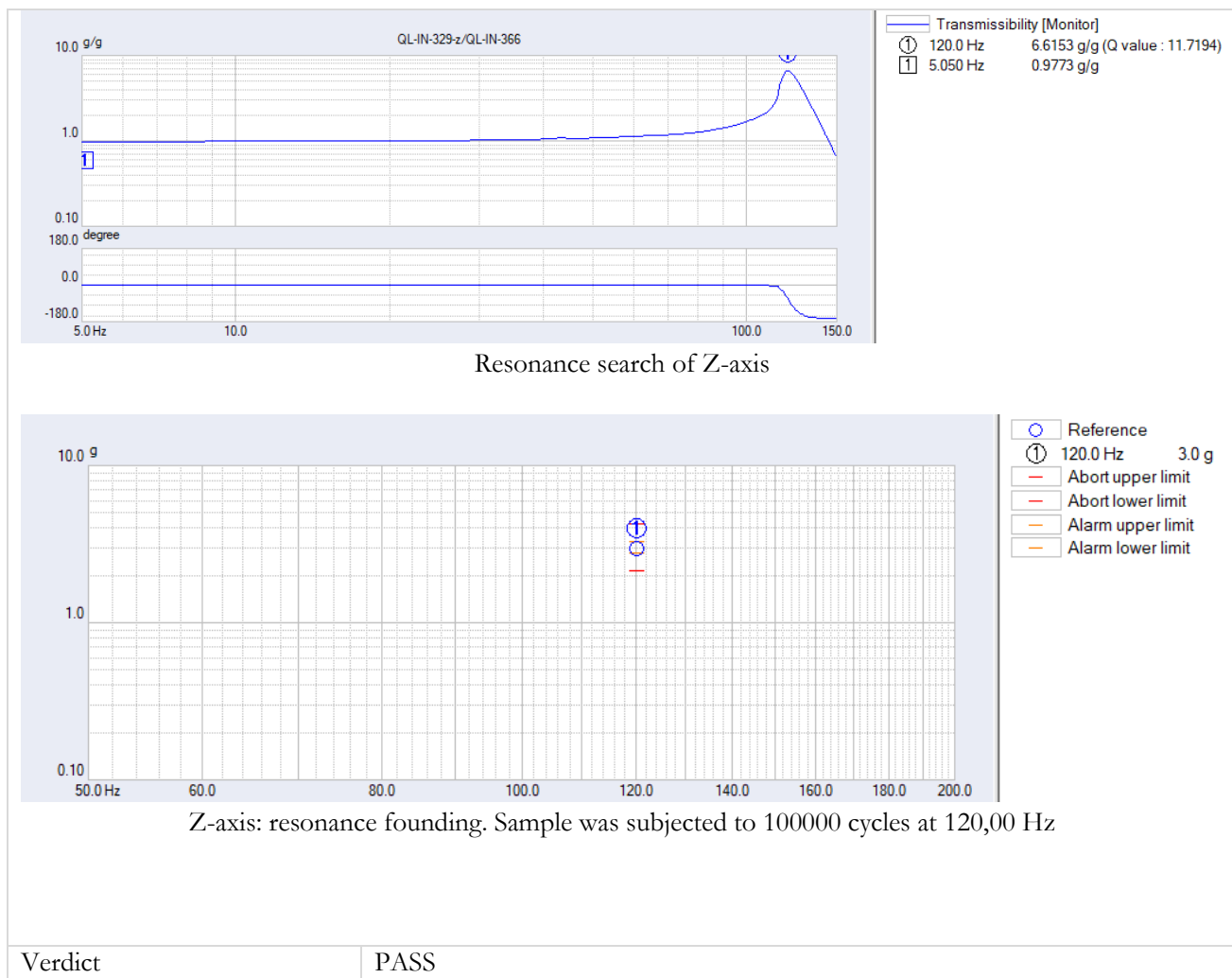


Resonance search of Y-axis



Y-axis: resonance founding. Sample was subjected to 100000 cycles at 62,00 Hz

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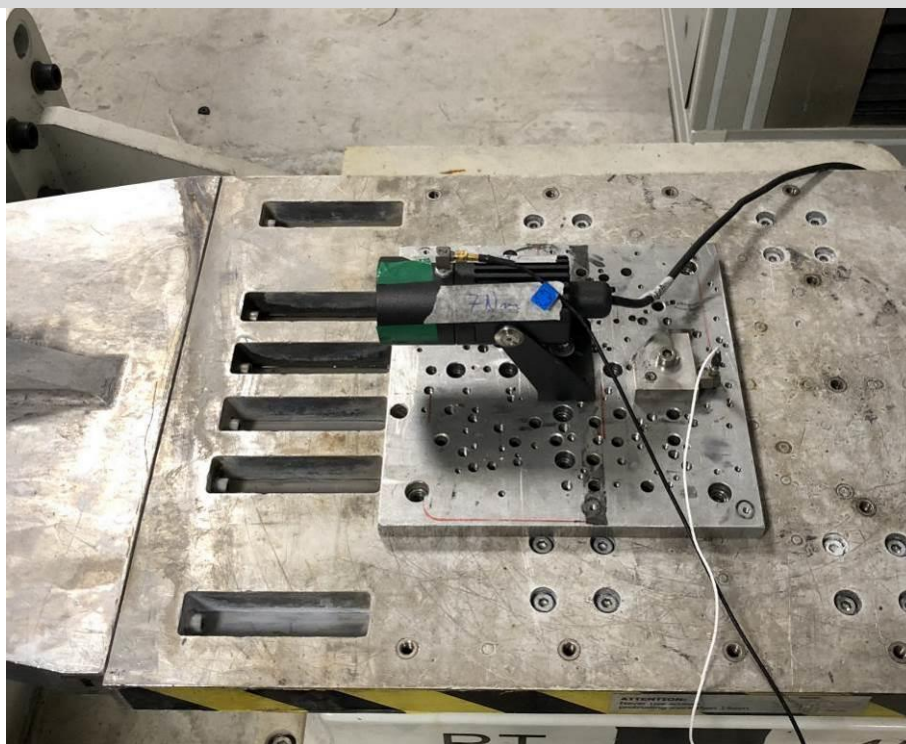
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LAB N° 1235 L

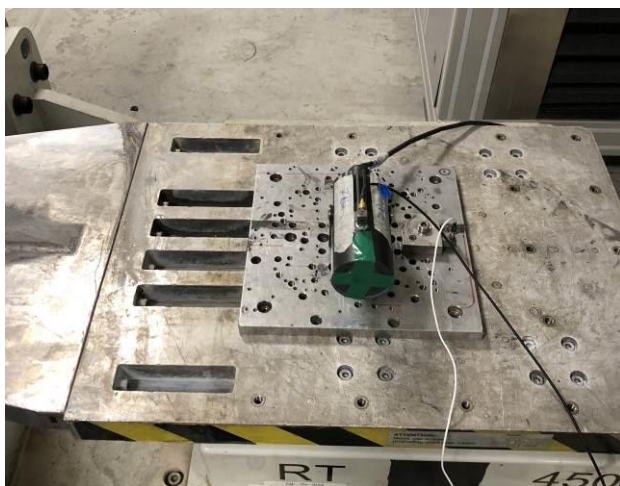
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ANNEX II

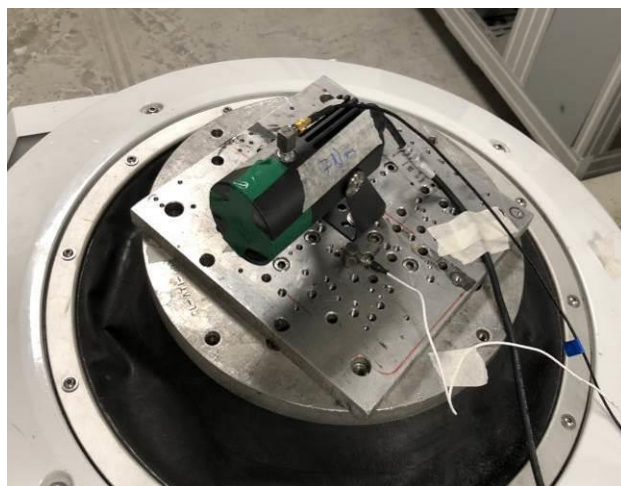
Photographs



X-axis



Y-axis



Z-axis

