Laboratory Service PHYSICAL TEST REPORT

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Member of Schréder Group

Subject: **SKIDO 6 led's**
Sample n°: P-E13112

Test purpose: **Vibration test following "Street Lighting Luminaires" testing protocol**
Test request n°: P-D13192
Folder n°: P-F13045

TEST CONDITIONS:

Operator: V2i

Testing protocol	
	"Street Lighting Luminaires" testing protocol
Test Item	Post-top and Side-entry Luminaire
Excitation Direction	3 directions
Search for frequencies and quality factor Q	Excitation: sine sweep Frequency band: 5 - 55 Hz Sweep speed: 1 octave/min. Acceleration: 0.5g
Test	Q < 2 (no natural frequency)
	Excitation: **RANDOM (*)** Frequency band: 5 - 55 Hz Acceleration: 0.84g_{RMS} Duration: 1h
	Q > 2
	Excitation : sine dwell Frequency : f0 (Qmax) Acceleration : 0.5g Duration : 30 minutes
Search for frequencies and quality factor Q	Excitation: sine sweep Frequency band: 5 - 55 Hz Sweep speed: 1 octave/min. Acceleration: 0.5g
(*) The RANDOM equivalent test consist in an accelerated ageing process of one hour which presents, on a reference one-degree-of-freedom system, an equivalent fatigue damage spectrum than 20 years of mean wind and 90 hours of storms.	

CONCLUSIONS:

SKIDO 6 led's complies with the vibration test following "Street Lighting Luminaires testing protocol".

Duplicate to: Mr M. Thijs
LAB 03/12/2015
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