

Laboratory Service

PHYSICAL

TEST REPORT



R-Tech

Rue de Mons 3 – B-4000 Liège – Belgium
Tel.: +32 4 224 71 40 – Fax: +32 4 224 25 90
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

<u>Testing protocol</u>	
"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

L. Maghe

//P-13CR192