### **Laboratory Service R**-Tech Rue de Mons 3 - B-4000 Liège - Belgium **R-Tech PHYSICAL** Tel.: +32 4 224 71 40 - Fax: +32 4 224 25 90 Member of Schréder Group **TEST REPORT**

### Subject: VOLTANA-2 - Side entry Configuration Sample nº: P-E14365

## Test purpose: Vibrations test: "Street Lighting Luminaires" testing protocol

Remarks: Test request n°: P-D14801 Folder nº: P-F14058

# **TEST CONDITIONS:**

**Testing protocol** "Street Lighting Luminaires" testing protocol Test Item Post-top and Side-entry Luminaire **Excitation Direction** 3 directions Excitation: sine sweep Search for Frequency band: 5 - 55 Hz frequencies and Sweep speed: 1 octave/min. quality factor Q Acceleration: 0.5g 0 < 2 Test (no natural frequency) Excitation: RANDOM (\*) Frequency band: 5 - 55 Hz Acceleration: 0.84g<sub>RMS</sub> Duration: 1h Q > 2 Excitation : sine dwell Frequency : f0 (Qmax) Acceleration : 0.5g Duration : 30 minutes Excitation: sine sweep Search for Frequency band: 5 - 55 Hz frequencies and Sweep speed: 1 octave/min. quality factor Q 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:**

VOLTANA-2 side entry configuration satisfies the Vibration tests following "Street Lighting Luminaires" testing protocol.

Duplicate to: Mr M. Thijs LAB 21/10/2014 J.P. Harchies

//P-14E801

page 1/1

Operator: V2i