

Laboratory Service PHYSICAL TEST REPORT



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Subject: VOLTANA 0 Side-entry configuration for pole Ø 42 mm

Sample n°:

Test purpose: Vibration test following “Street Lighting Luminaires” testing protocol

Test request n°: P-D17428

Folder n°: P-F16041

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 consists 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 0 in Side-entry configuration for pole Ø 42 mm complies with vibrations test following Street Lighting Luminaires testing protocol.



Duplicate to: Mr Ph. Verbeeck
LAB 14/06/2017
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