

# TEST CERTIFICATE

**COMPANY** : Electroweb  
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**ATTENTION** : Mr. Pieter le Roux  
**PROJECT NUMBER** : 8798  
**TEST ITEM DESCRIPTION** : Interior light for train compartment application.  
**TEST SPECIFICATION** : IEC 61373 Railway application; Rolling stock equipment; Shock and vibration test.  
**DATE RECEIVED** : 2010-02-03  
**TEST COMPLETED** : 2010-02-03  
**REMARKS** : None

**TEST EQUIPMENT** :

Equipment	Asset No.	Calibration Certificate No.
Vibrator system	OTF 0896	2009-1496

**SUMMARY OF TESTS** : The light fitting was vibrated as specified and in accordance with IEC61373 for category 1 (body mounted) equipment, class A application. The unit was vibrated for a period of 10 minutes in each of the three mutually perpendicular axes. The vibration profile applied was for the frequency band of 5Hz to 150Hz at a level as indicated in figure 1 for Long Life Test application. An acceleration level of  $1.034(m/s^2)^2/Hz$  was used for the vertical, transverse and longitudinal directions. The vertical vibration profile, which is the most severe of the three profiles, was used during the test.

**SUMMARY OF RESULTS** : Satisfactory functional results were obtained during and after the applied environmental condition. No mechanical degradation was noted during the visual inspection after the test.

TESTING PERFORMED BY:

CHECKED BY:

APPROVAL:





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CHIEF TECHNOLOGIST

R VAN DEN BERG  
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J F SMIT  
EXECUTIVE MANAGER:  
TECHNICAL SERVICES

2010-02-15  
Date

2010-02-15  
Date

2010-02-15  
Date