Product verification and reliability Report
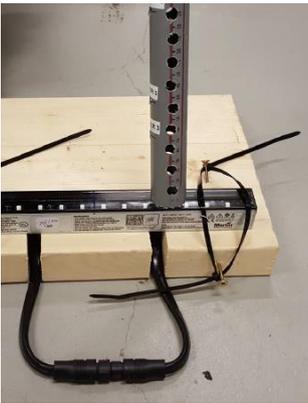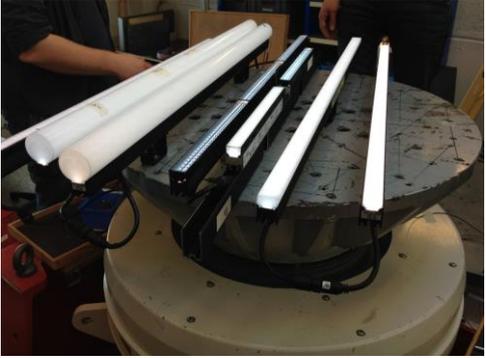
Product: Exterior PixLine series
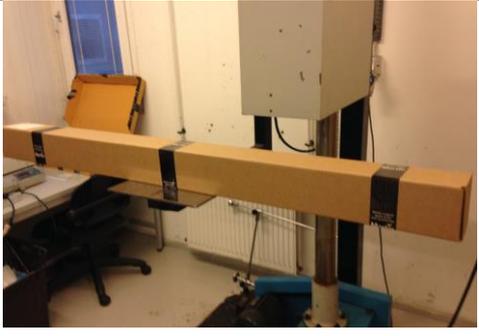
Date: 2016-07-27

Test performed	Condition	Duration	Test lab	Result
Solar Radiation and Moist Test Verification - method for exposing fixture to UV light in the presence of moisture to reproduce the weathering effects (temperature, humidity and/or wetting)	ISO 4892-2, cyclic no. 1, 102 mins. dry, 18 mins. water spray	2500 hour	Velux	Pass
Solar Radiation - method for exposing fixture to UV light to reproduce the UV aging effect (temperature and UV alone)	EN60068-2-5. 1090W/m2, T=40°C	10 days	EKTOS	Pass
IK Class Test Verification – Protection against external mechanical impacts	EN62262, IK-05	NA	EKTOS	Pass

Chlorine and Sulfur Verification – verification that the product is robust toward high levels of chloride and harsh (polluted) environments with high S02 (Sulfur dioxide) /H2S(Hydrogen sulfide) 	Martin Specification	30 mins / 6 hour	Danfoss	Pass
Application Vibration Test Verification – verification of mechanical robustness 	NTM-M104 /IEC 60068-2-6, 1.0g, X, Y & Z direction NTM-M203 Random /IEC 60068-2-64, Random vibration. 0,7g RMS,5-100 Hz, X, Y & Z direction	3 x 30 mins. 3 x 30 mins.	TERMA	Pass
Cyclic Temperature Test Verification – verification of robustness against rapid ambient temperature changes	-20°C to +55°C -35°C to +°70C	30 cycles 10 cycles	Martin	Pass
Temperature chock – verification of robustness against rapid ambient temperature changes	50°C to 0° (ice water)	5 cycles	Martin	Pass
IP Class Test Verification - protection against intrusion of dust and water 	IP 66, EN60529	8h /3 mins.	EKTOS / Intertek	Pass

Salt fog Test Verification - corrosion resistance of materials and surface coatings	ASTM-B117, 5% NaCl, T=35°C / ISO12944, C5-M, Medium durability	1440 hours	EKTOS	Pass
Wind Speed – Verification of mechanical robustness against high wind speed, gust and rain	Wind speed and blowing rain, up to 32,7 m/s	11 min	Velux	Pass
Surge / Transient Test Verification - surge immunity from power switches and lightning	EN61000-4-5 / Class 4, 4kV, EN61000-4-4 / Level 4, 4kV	NA	Martin	Pass
Packing drop Test Verification – verification of robustness of product and packing	Nordtest method NT ELEC M601; Free fall: 1.2 m. 10 drops	NA	Martin	Pass

Fire resistance – verification of the risk of ignition and spread of flame, both within the equipment and outside , by the appropriate use of materials and components and suitable construction	IEC60950-1/IEC60950-22 Section 4.7. Potting tested to 5VB	NA	Intertek	Pass

Report prepared and verified by: Bo Horsted Poulsen, Senior Quality Engineer

Department: Martin Professional, R&D QA

Date: 27-07-2016

Revision: 00