Product verification and reliability report
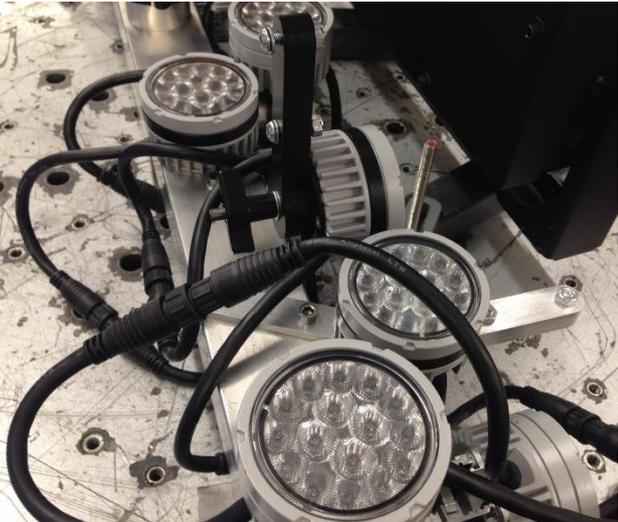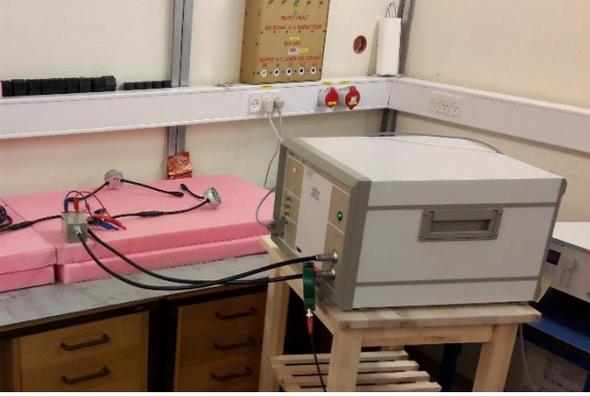
Product: Exterior Dot-HP

Date: 2021-11-29

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 min. dry, 18 min. water spray	2500 hour	Velux	Pass
IK Class Test Verification – Protection against external mechanical impacts 	IK-08 Updated: 2021-11-29	NA	Ektos	Pass

Application Vibration Test Verification 	NTM-M104 / IEC 60068-2-6, 1.0g, X, Y & Z direction NTM-M203 Random / IEC 60068-2-64, Random vibration, 0,7g RMS, 3-100 Hz, X, Y & Z direction Random vibration in each of three axes: 30 min. at 1.9 g, with PSD: 10 – 20 Hz: 0.05 g2/Hz and 20 – 500 Hz: -3 dB/octave. (NTM-M204 / IEC 60068-2-64)	3 x 30 mins. 3 x 30 mins. 3 x 30 mins.	Terma	Pass
IP Class Test Verification - protection against intrusion of dust and water	IP66 according to IEC60529	NA	Intertek	Pass
Salt fog Test Verification - corrosion resistance of materials and surface coatings 	Neutral Salt Spray test, 5%, 35°C, ASTM B117/ ISO 9227, EN 12944-6, Corrosively category C5-M, medium durability	1440 hours	Martin Professional	Pass

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Surge / Transient Test Verification- surge immunity from power switches and lightning	EN61000-4-5 / Class 4, 4kV, Criteria B EN61000-4-4 / Level 4, 4kV	NA	Martin Professional	Pass
Packing drop Test Verification	ISTA 3A	NA	Martin Professional	Pass
Windload	Wind speeds up to 40 m/s with rain (120 mm/HR) had no effect on the products	NA	Velux	Pass

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Temperature test - -30°C/+55°C during operation	NA	NA	Martin Professional	Pass

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

Department: Martin Professional, R&D QA

Date: 29-11-2021

Revision: 02