


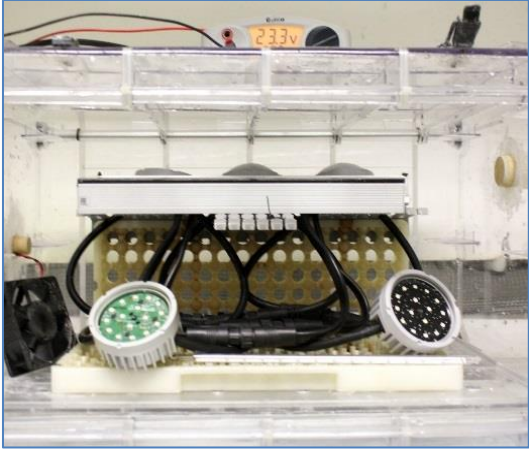

Product verification and reliability report


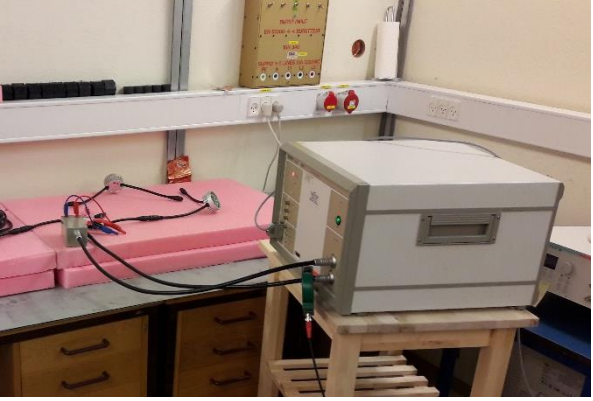

Product: Exterior Dot-HP

Date: 2017-07-05



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  A photograph showing two circular light fixtures being tested with a hammer. The fixtures are mounted on a surface, and the hammer is positioned to strike them.	EN 62262, IK-05	NA	Martin Professional	Pass

<p>Chlorine and Sulfur Verification – verification that the product is robust toward high levels of chloride and harsh (polluted) environments with high SO₂ (Sulfur dioxide) /H₂S(Hydrogen sulfide)</p> 	<p>Martin Specification</p>	<p>30 mins / 6 hour</p>	<p>Danfoss</p>	<p>Pass</p>
<p>Application Vibration Test Verification - - verification of mechanical robustness</p> 	<p>NTM-M104 / IEC 60068-2-6, 1.0g, X, Y & Z direction</p> <p>NTM-M203 Random / IEC 60068-2-64, Random vibration, 0,7g RMS, 3-100 Hz, X, Y & Z direction</p>	<p>3 x 30 mins.</p> <p>3 x 30 mins.</p>	<p>Terma</p>	<p>Pass</p>
<p>IP Class Test Verification - protection against intrusion of dust and water</p>	<p>IP66 according to IEC60529</p>	<p>NA</p>	<p>Intertek</p>	<p>Pass</p>

<p>Salt fog Test Verification - corrosion resistance of materials and surface coatings</p> 	<p>Neutral Salt Spray test, 5%, 35°C, ASTM B117/ ISO 9227, EN 12944-6, Corrosively category C5-M, medium durability</p>	<p>1440 hours</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Surge / Transient Test Verification- surge immunity from power switches and lightning</p> 	<p>EN61000-4-5 / Class 4, 4kV, Criteria B EN61000-4-4 / Level 4, 4kV</p>	<p>NA</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Packing drop Test Verification – verification of robustness of product and packing</p> 	<p>ISTA 3A</p>	<p>NA</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Wind Speed – Verification of mechanical robustness against high wind speed, gust and rain</p>	<p>Wind speeds up to 40 m/s with rain (120 mm/HR) had no effect on the products</p>	<p>NA</p>	<p>Velux</p>	<p>Pass</p>



Temperature test – verification of thermal management	-30°C/+55°C during operation	NA	Martin Professional	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	

Bo A. Poulsen

Report prepared and verified by: Bo Horsted Poulsen, Senior Quality Engineer
 Department: Martin Professional, R&D QA
 Date: 06-07-2017
 Revision: 01