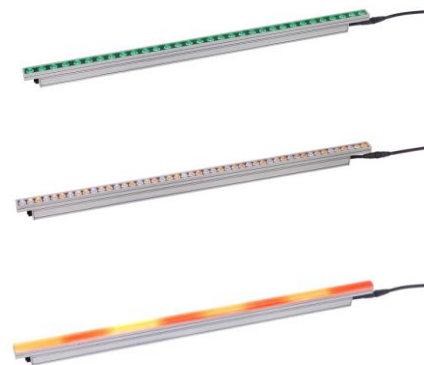
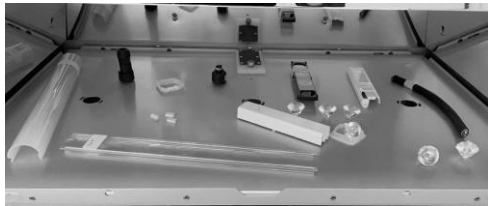

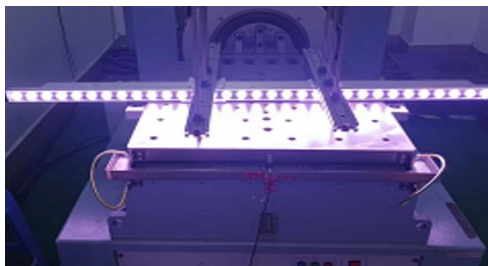


Product verification and reliability report

Product: Exterior Linear Pro

Date: 2023-11-14



Test performed	Condition	Duration	Test lab	Result
<p>Solar Radiation and Moist Test – Method for exposing fixture to UV light in the presence of moisture to reproduce the weathering effects (temperature, humidity and/or wetting)</p> 	ISO 4892-2, cyclic no. 1, 102 mins. dry, 18 mins. water spray.	2500 hours	Martin Professional	Pass
<p>IK Class Test -Verification of protection against external mechanical impacts</p> 	EN62262, IK-08	N/A	Martin Professional	Pass
<p>Application Vibration Test -Verification of Protection against transportation and installation vibration</p> 	<p>Sinusoidal vibration test acc. to IEC 60068-2-6</p> <p>Random vibration acc. to IEC 60068-2-64.</p> <p>ANSI C136-31 ((Bridge & Overpass Applications 3g)</p> <p>Fixture powered during the test</p>	<p>3 x 30 mins.</p> <p>3 x 30 mins.</p> <p>3 x 30 mins</p>	Martin Professional	Pass

<p>IP Class Test - Verification of protection against intrusion of dust and water</p> 	<p>IP66 according to IEC/EN60598</p>	<p>8h /3 mins.</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Salt Mist Test – Verification of corrosion resistance of materials and surface coatings</p> 	<p>Neutral Salt Spray test, 5%, 35°C, ASTM B117/ ISO 9227, EN 12944-6, C5-H</p>	<p>1440 hours</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Surge / Transient Test -Surge immunity from power switches and lightning.</p> 	<p>EN61000-4-5 / Class 4, 4kV</p>	<p>N/A</p>	<p>NTEK</p>	<p>Pass</p>
<p>Packing drop Test - Verification of products and packing strength</p> 	<p>ISTA 3A, 9+8 drops</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>

<p>Wind load Test - Wind load simulation</p> 	<p>Tested according to EN60598-2-5</p> <p>Static load simulating 60 m/sec. (216 km/h) wind force without causing failure or permanent set to mount bracket</p>	<p>10 mins.</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Thermal Test - -30 °C to +45 °C during operation</p> 	<p>Designed and tested to ambient temperature Ta (min/max): -30 °C to +45 °C</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>
<p>Chlorine Test- Verification of product robustness toward high levels of chloride environment</p> 	<p>Accelerated test base on IEC68-2-60 test regime</p>	<p>106.5 hours</p>	<p>Danfoss</p>	<p>Pass</p>
<p>Outdoor Lifetime Test - Verification of product lifetime in the outdoor environment</p> 	<p>Power on in the outdoor weathering</p>	<p>10000 hours</p>	<p>Martin Professional</p>	<p>Ongoing</p>

J Xu

Report prepared and verified by:

Justin XU, Principal Test Engineer

Department:

Martin Professional, R&D, Test and Validation

Date:

2023-11-14

Revision:

B