Product verification and reliability report

Product: Exterior Wash Pro Family

Date: 2023-12-14

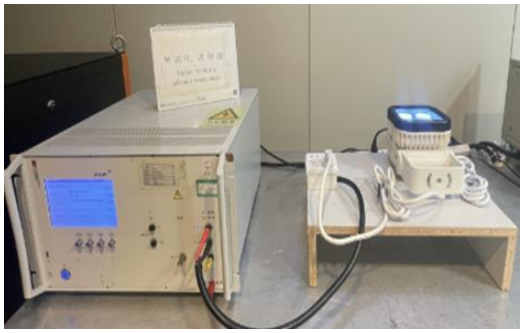


Test performed	Condition	Duration	Test lab	Result
Solar Radiation and Moist Test – Method for exposing fixture or components to UV light in the presence of moisture to reproduce the weathering effects (temperature, humidity and/or wetting) 	ISO 4892-2, cyclic no. 1, 102 mins. dry, 18 mins. water spray.	2500 hours	Martin Professional	Pass
IK Class Test -Verification of protection against external mechanical impacts 	EN62262, IK-08	N/A	Martin Professional	Pass

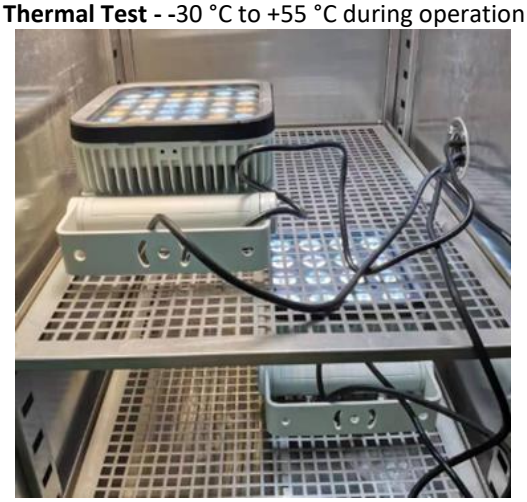
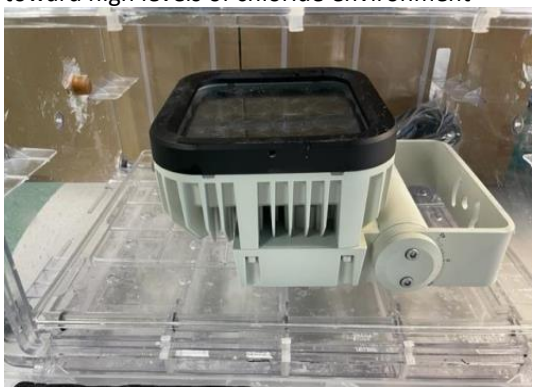
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Application Vibration Test -Verification of protection against transportation and installation vibration 	Sinusoidal vibration test acc. to IEC 60068-2-6 Random vibration acc. to IEC 60068-2-64. ANSI C136-31 ((Bridge & Overpass Applications 3g) Fixture powered during the test.	3 x 30 mins. 3 x 30 mins. 3 x 30 mins	Martin Professional	Pass
IP Class Test - Verification of protection against intrusion of dust and water  	IP66 according to IEC/EN60598	8h /3 mins.	Martin Professional	Pass
Salt Mist Test – Verification of corrosion resistance of materials and surface coatings 	Neutral Salt Spray test, 5%, 35°C, ASTM B117/ ISO 9227, EN 12944-6, C5-H	1440 hours	Martin Professional	Pass

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Surge / Transient Test -Surge immunity from power switches and lightning. 	EN61000-4-5 / Class 4, 4kV	N/A	NTEK	Pass
Packing drop Test - Verification of products and packing strength 	ISTA 3A, 9+8 drops	N/A	Martin Professional	Pass
Wind load Test - Wind load simulation 	Tested according to EN60598-2-5 Static load simulating 60 m/sec. (216 km/h) wind force without causing failure or permanent set to mount bracket	10 mins.	Martin Professional	Pass

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Thermal Test - -30 °C to +55 °C during operation 	Tested to ambient temperature Ta (min/max): -30 °C to +55 °C (Above specified temperature range, the fixture regulates output to protect from overheating)	N/A	Martin Professional	Pass
Chlorine Test- Verification of product robustness toward high levels of chloride environment 	Accelerated test based on IEC68-2-60 test regime	106 hours	Danfoss	Pass
Outdoor Lifetime Test - Verification of product lifetime in the outdoor environment 	Power on in the outdoor weathering with permanent power 24/7 schemes and power on/off cycle schemes	10000 hours	Martin Professional	Pass

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Report prepared and verified by:	Justin XU, Principal Test Engineer
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Date:	2023-12-14
Revision:	B

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