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中国认可
国际互认
检测
TESTING
CNAS L0128



W02394230123E

检测报告

Test Report



YECobWxP

产品名称: **Shallow Base (12-inch)+Cover Plate**
 Name of Sample

型号规格: **SB-12-C+CP-12**
 Type

委托单位: **Airsafe Airport Equipment Co.,Ltd.**
 Applicant

检测类别: **Entrusted Tests**
 Test Purpose


国家电光源质量监督检验中心（上海）
 National Center of Inspection and Testing on Electric Light Source Quality(Shanghai)
 国家灯具质量监督检验中心
 China National Lighting Fitting Quality Inspection and Testing Centre (CLTC)
 上海市质量监督检验技术研究院
 Shanghai Institute of Quality Inspection and Technical Research



上海市质量监督检验技术研究院

检测报告

报告编号: W02394230123E
共 6 页第 1 页

Name of Sample	Shallow Base (12-inch)+Cover Plate		Test Purpose	Entrusted Tests
Type	SB-12-C+CP-12		Trade Mark	Airsafe
Grade	Qualified products			
Applicant	Airsafe Airport Equipment Co.,Ltd.			
Tested Company	Airsafe Airport Equipment Co.,Ltd.			
Producer	Airsafe Airport Equipment Co.,Ltd.			
Number of Client	W02394230123E	Entrusting/Sampling Date	2023/5/15	
Reception Date	2023/5/15	Sampling Spot	/	
Sample Quantity	1psc	Sum of Sample	/	
Date of Production	/	Original Number	/	
Situation of Sample	Intact Sent by client			
Testing Place	No.900 Jiangyue Rd, Shanghai			
Test Standard	FFAA AC 150/5345-46E Specification for runway and taxiway light fixtures IEC TS 61827:2004 Electrical installations for lighting and beaconing of aerodromes Characteristics of inset and elevated luminaires used on aerodromes and heliports AC-137-CA-2015-03-R1 Technical Specification for Runway and Taxiway Lights AC-137-CA-2015-04-R1 Testing Specification for Runway and Taxiway Lights GB/T 7256.1-2022 Lighting fixtures for civil airport-Part I: General requirements			
Date of Testing	2023/5/15 to 2023/6/13			
Conclusion	The test report only offers a single testing conclusion; See the details on the page of summary. <div style="text-align: center;">  (Test Report Badge) Issued Date: 2023年06月14日 </div>			
Client's Message	Add.	205 Changchuan Road, Baoshan District, Shanghai, China		
	Zip Code	200949	Tel.	021-63073484
Remarks	The test report only offers the conclusions for the tested items according to the relevant testing standards and / or judgments which are not included the conclusions of the untested items or performances. The test report has two versions, one in Chinese, the other in English. The Chinese one is in priority.			

Approved by: 张璐
授权签字人


张璐

Checked by:

王晔

Tested by:

何欣

Describing of unstandard method: -
Explanation of method deviated off standard & other information: -
Explanation about the sampling procedure: -
Evaluation of the uncertainty of related result: -
State of sample feature:Shallow base diameter is 325mm. Height is 150mm. 
Remarks: "P" means the test results meet the requirements, "F" means the test results do not meet the requirements, "N" and "-" means the requirements do not apply to the product, "/" means the test is not conducted or no content. This is the translation document of Chinese test report W02394230123. The test report in Chinese is the formal document.

检测报告

Summary of test results					
No.	Item	Requirement	Result	Judgement of Single Item	Remark
1	Static load	<p>IEC TS 61827:2004 Electrical installations for lighting and beaconing of aerodromes - Characteristics of inset and elevated luminaires used on aerodromes and heliports:</p> <p>A static load test shall be performed on the complete inset luminaire installed on the smallest support structure as installed. The test load shall be applied to the top part of the test assembly through a rubber block of a diameter at least 25 mm less than the outside diameter of the luminaire assembly. The thickness of the rubber block shall be between 25 mm to 40 mm and have a Shore A hardness of 55-70. The total load in kilograms to be applied shall be 32 times the area in cm² of the luminaire. The load shall be applied uniformly over the rubber at a rate not greater than 4536 kg/min, the full load shall be applied for at least 1 min. The test luminaire shall be considered unsatisfactory if there is any permanent deformation, cracking of material or finish, breaking, or damage to any part of the luminaire.</p> <p>FAA AC 150/5345-46E Specification for runway and taxiway light fixtures:</p> <p>When installed per the manufacturer's recommendations, the light fixture (and its adapter ring, if required) must withstand a static loading (in pounds/kilograms) of 450 times the top area of the light fixture (in square inches) distributed uniformly over the top surface.</p> <p>AC-137-CA-2015-03-R1 Specification for runway and taxiway light fixtures AC-137-CA-2015-04-R1 Test specification for runway and taxiway light fixtures GB/T 7256.1-2022 Lighting fixtures for civil airport-Part 1:General requirements:</p> <p>Inset luminaire in normal working condition should be able to withstand the pressure and impact of large aircraft tires without damage. The luminaire should be able to withstand a static load of 31.7kg/cm² distributed evenly over the upper surface of the luminaire in normal working condition. The luminaire should not break when the luminaire is damaged</p>	<p>diameter: 304mm Load P: 225228N 1min No deformation or damage</p>	P	/



检测报告

Summary of test results					
No.	Item	Requirement	Result	Judgement of Single Item	Remark
2	Shear load	<p>IEC TS 61827:2004 Electrical installations for lighting and beaconing of aerodromes - Characteristics of inset and elevated luminaires used on aerodromes and heliports:</p> <p>This test is to simulate the shearing load applied to the top of any inset luminaire by a braking aircraft tire. A bar of sufficient length to extend beyond the fixture shall be welded to the top of the luminaire so it is parallel to the runway centreline when the luminaire is installed. The ends of the bar shall extend beyond the edges of the luminaire to facilitate loading. The luminaire, attached to a standard mounting interface and torqued to manufacturer's specifications, shall be installed in a sufficient anti-rotation device. A force of 13,5 kN shall be applied axially to the end of the bar. The force shall be applied and released 20 times. Any structural damage, movement of any part, or loosening of fasteners shall be cause for rejection.</p>	No damage, movement of any part and no loosening of fasteners	P	/
		<p>FAA AC 150/5345-46E Specification for runway and taxiway light fixtures:</p> <p>The light fixture must withstand a shear load of 3,000 pounds (1,360.78 kg) applied to the top of the light in any direction parallel to the mounting surface.</p>			
		<p>AC-137-CA-2015-03-R1 Specification for runway and taxiway light fixtures AC-137-CA-2015-04-R1 Test specification for runway and taxiway light fixtures GB/T 7256.1-2022 Lighting fixtures for civil airport-Part 1:General requirements:</p> <p>The whole of the inset luminaire mounted on the runway should be able to withstand a shear force of 1361 kg applied to the top of the luminaire in any direction parallel to the mounting surface.</p>			



检测报告

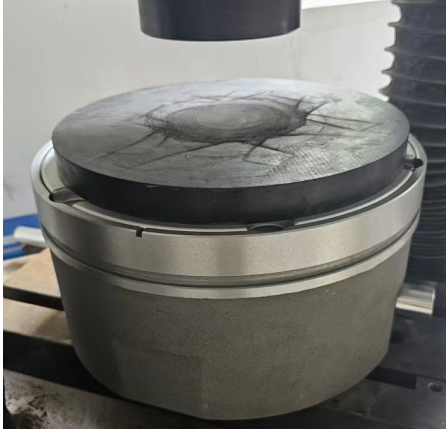
Summary of test results					
No.	Item	Requirement	Result	Judgement of Single Item	Remark
3	Watertightness	<p>IEC TS 61827:2004 Electrical installations for lighting and beaconing of aerodromes - Characteristics of inset and elevated luminaires used on aerodromes and heliports: Prior to performing this test, the wire leads shall be subjected to a tension of either 14 kg or the weight of the fixture, whichever is greater, for 5 min to test the integrity of the seal where the leads enter the luminaire. The entire luminaire shall then be submerged in water at least 76 mm below the surface, subjected to an internal air pressure of 140 kPa and maintained for a period of 10 min. Any leakage shall be reason for rejection.</p> <p>FAA AC 150/5345-46E Specification for runway and taxiway light fixtures: Components containing optical components, including bulbs, should be resistant to water leakage and infiltration above and below the luminaire.</p> <p>AC-137-CA-2015-03-R1 Specification for runway and taxiway light fixtures AC-137-CA-2015-04-R1 Test specification for runway and taxiway light fixtures GB/T 7256.1-2022 Lighting fixtures for civil airport-Part 1:General requirements: Components containing optical components in inset luminaires, including lamps, should be able to prevent water penetration. Optical components should be able to withstand an internal pressure of 138 kPa</p>	Base has not leakage.	P	Sample without luminair e.

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检测报告

Anex 1 Photos

Static load



Shear load



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注 意 事 项

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National Center of Quality Inspection and Testing on Furniture

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China National Lighting Fitting Quality Inspection and Testing Centre (CLTC)

声 明

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- 1、本质检机构保证检测的科学性、公正性和准确性，对检测的数据、结果负责，并对客户所提供的样品和技术资料保密。SQI pledges to conduct scientific, impartial and accurate testing, undertakes the liability of testing data and results, and protects the confidentiality of client(s)' sample(s) and technical information.

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