

شهادة تسجيل مختبر Registration Certificate of Laboratory

Lab Name:	Eurofins Electrical Testing Service (Shanghai) Co., Ltd.
The Address:	Building 18, No. 2168, Chenhang Highway, Minhang District Shanghai, China
Responsible Person:	June Fan
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اسم المختبر:
العنوان:
الشخص المسؤول:
عناوين التواصل:

The above establishment has been registered as conformity assessment body further to its request on 03/11/2020 according to SASO decision of (adoption of the regulation approval) No: (1185) Date: 10/11/2015 to conduct:

(Testing in the Scope of Energy Efficiency)
activity listed in annex.

Annex specifies the technical scope

Registration Number:	EE LAB 0005
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Date of issue: 08 / 12 / 2020

Validity of Certificate: three years from the date of issue

تم تسجيل المنشأة المذكورة أعلاه كجهة تقويم مطابقة مسجلة بناءً على الطلب المقدم من قبلهم بتاريخ ٠٣ / ١١ / ٢٠٢٠ ووفقاً لقرار اعتماد لأئحة القبول الصادر من الهيئة السعودية للمواصفات والمقاييس والجودة برقم (١١٨٥) وتاريخ ٢٧ / ١١ / ١٤٣٧هـ وذلك للعمل في نشاط:

(الفحص والاختبار في مجال كفاءة الطاقة)
للمجالات المحددة في الوثيقة العرفقة.

يحدد الملحق: المجال الفني

رقم التسجيل:

تاريخ الإصدار: ٠٨ / ١٢ / ٢٠٢٠

صلاحية الشهادة: ثلاث سنوات من تاريخ الإصدار

نائب المحافظ للمطابقة والعمليات
Vice Governor for Conformity and Operations

المهندس / سعود بن راشد العسكر
Eng. Saud R. AlAskar



تخضع هذه الشهادة خلال مدة سريانها للأنظمة واللوائح ذات العلاقة في المملكة العربية السعودية وأي تعديلات تصدرها الهيئة



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EE LAB 0005 - 08/12/2020 : (مجال التسجيل) رقم الشهادة

(Registration Scope) Certificate No: EE LAB 0005 - 08/12/2020

اللائحة الفنية لكفاءة الطاقة (فئات المنتجات) Energy Efficiency Technical Regulation (Product Categories)	اسم المختبر Laboratory Name	عنوان المختبر Laboratory Address	رقم التسجيل Registration NO.																																								
<p>- SASO 2892:2018 Refrigerators, Refrigerator- Freezers and Freezers - Energy Performance, Testing and Labeling Requirements. "Approved based on the following testing method standard SASO IEC 62552:2007 - Households refrigerating appliances - Characteristics and test methods"</p> <p>- SASO 2870:2018 Lighting products - Lamps: Energy Efficiency, Functionality and Labeling Requirements for Lighting Products - Part 1</p> <p>1. LED Lamp:</p> <table border="1"> <thead> <tr> <th>Testing Method</th> <th>Reference Standard</th> </tr> </thead> <tbody> <tr> <td>Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements</td> <td>IEC 62612</td> </tr> <tr> <td>LED - Binning - Part 1: General requirements and white grid</td> <td>SASO IEC/PAS 62707-1</td> </tr> <tr> <td>LED Modules Performance specifications</td> <td>SASO IEC/PAS 62717</td> </tr> <tr> <td>Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires</td> <td>SASO EN 13032-4</td> </tr> <tr> <td>Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires</td> <td>prEN 13032-4</td> </tr> <tr> <td>Luminance</td> <td>CIE 18.2</td> </tr> <tr> <td>General conditions of luminous flux measurement: L2(AP)005 for cone luminous Flux</td> <td>CIE 84</td> </tr> <tr> <td>Spectral power distribution</td> <td>CIE 63</td> </tr> <tr> <td>Cone luminous flux</td> <td>L2(AP)005</td> </tr> </tbody> </table> <p>2. Halogen Lamp:</p> <table border="1"> <thead> <tr> <th>Testing Method</th> <th>Reference Standard</th> </tr> </thead> <tbody> <tr> <td>Method of measuring pinch temperatures</td> <td>SASO IEC 60682</td> </tr> <tr> <td>Tungsten halogen lamps (non-vehicle) - Performance specifications</td> <td>IEC 60357</td> </tr> <tr> <td>Basics of luminous flux</td> <td>CIE 84</td> </tr> <tr> <td>Lamp survival factor</td> <td>CIE 97</td> </tr> <tr> <td>Chromaticity coordinates</td> <td>CIE 15</td> </tr> <tr> <td>Method of measurement of centre beam intensity and beam angle(s) of reflector lamps</td> <td>IEC/TR 61341</td> </tr> <tr> <td>Luminance</td> <td>CIE 18.2</td> </tr> <tr> <td>Specific effective UV radiant power</td> <td>IEC 62471</td> </tr> <tr> <td>Spectral power distribution</td> <td>CIE 63</td> </tr> </tbody> </table>	Testing Method	Reference Standard	Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements	IEC 62612	LED - Binning - Part 1: General requirements and white grid	SASO IEC/PAS 62707-1	LED Modules Performance specifications	SASO IEC/PAS 62717	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires	SASO EN 13032-4	Light and lighting - Measurement and presentation of photometric data of lamps and luminaires Part 4: LED light sources and luminaires	prEN 13032-4	Luminance	CIE 18.2	General conditions of luminous flux measurement: L2(AP)005 for cone luminous Flux	CIE 84	Spectral power distribution	CIE 63	Cone luminous flux	L2(AP)005	Testing Method	Reference Standard	Method of measuring pinch temperatures	SASO IEC 60682	Tungsten halogen lamps (non-vehicle) - Performance specifications	IEC 60357	Basics of luminous flux	CIE 84	Lamp survival factor	CIE 97	Chromaticity coordinates	CIE 15	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	IEC/TR 61341	Luminance	CIE 18.2	Specific effective UV radiant power	IEC 62471	Spectral power distribution	CIE 63	<p>Eurofins Electrical Testing Service (Shanghai) Co., Ltd.</p>	<p>Building 18, No. 2168, Chenhang Highway, Minhang District Shanghai, China</p>	<p>EE LAB 0005</p>
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3. Incandescent Lamp:

Testing Method	Reference Standard
Tungsten Performance Standard	SASO GSO IEC 60064
Lamp survival factor	CIE 97
Chromaticity coordinates (for basics on photometry)	CIE S 010 OR
Photometry - The CIE system of physical photometry	ISO 23539
Chromaticity coordinates (for basics on colorimetry)	CIE 15
Chromaticity coordinates (for spectroradio-metric measurement)	CIE 63
Luminance	CIE 18.2
Specific effective UV radiant power	IEC 62471
Method of measurement of center beam intensity and beam angle	SASO IEC TR 61341

- SASO 2902:2018

Lighting products – Lamps: Energy Efficiency. Functionality and Labeling Requirements for Lighting Products – Part 2

1. Luminaires and Lamp LED:

Type of Test	Testing Method	Reference Standard
Functionality & Energy Efficiency	ENERGY EFFICIENCY, FUNCTIONALITY AND LABELLING REQUIREMENTS FOR LIGHTING PRODUCTS - PART 2	SASO 2902
	Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature	IES LM-82
	Electrical and Photometric Measurements of Solid-State Lighting Products	IES LM-79
	The basis of physical photometry	CIE 18.2:1983
Endurance	LED modules for general lighting - Performance requirements	IEC 62717
	Luminaire performance - Part 1: General requirements	IEC 62722-1
	Luminaire performance - Part 2-1: Particular requirements for LED luminaires	IEC 62722-2-1
	Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires & Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaries	IES LM84 & IES TM28
	ELECTRIC LAMPS - SPECIFICATIONS FOR THE CHROMATICITY OF SOLID-STATE LIGHTING PRODUCTS	ANSI C78.377
	In-SITU Temperature Measurement Testing (ISTMT)	ISTMT



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Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules & Projecting Long Term Lumen Maintenance of LED Light Sources	IES LM80 & IES TM21
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2. Halogen Lamp:

Testing Method	Reference Standard
Method of measuring pinch temperatures	SASO IEC 60682
Tungsten halogen lamps (non-vehicle) – Performance specifications	IEC 60357
Basics of luminous flux	CIE 84
Lamp survival factor	CIE 97
Chromaticity coordinates	CIE 15
Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	IEC/TR 61341
Luminance	CIE 18.2
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Luminance	CIE 18.2
Specific effective UV radiant power	IEC 62471
Method of measurement of center beam intensity and beam angle	SASO IEC TR 61341

4. HID:

Type of Test	Testing Method	Reference Standard
Functionality & Energy Efficiency	ENERGY EFFICIENCY, FUNCTIONALITY AND LABELLING REQUIREMENTS FOR LIGHTING PRODUCTS - PART 2	SASO 2902
	Discharge lamps (excluding fluorescent lamps) - Safety specifications	IEC 62035
	Specification for high-pressure mercury vapour lamps	IEC 60662:2012
	Metal halide lamps - Performance specification	IEC 61167
	The measurement of luminous flux	CIE 84-1989
	Colourimetry	CIE 15-2004



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	Method of Measuring and Specifying Colour Rendering Properties of Light Sources	CIE 13.3-1995
	The maintenance of outdoor lighting systems	CIE 154-2003
Endurance	Specification for high-pressure mercury vapour lamps	IEC 60662
	Guide on the maintenance of indoor electric lighting systems	CIE 97-2005
	Metal halide lamps - Performance specification	IEC 61167

5. Ballast and control gear:

Type of Test	Testing Method	Reference Standard
Functionality & Energy Efficiency	Energy performance of lamp controlgear - Part 1: Controlgear for fluorescent lamps - Method of measurement to determine the total input power of controlgear circuits and the efficiency of controlgear	IEC 62442-1
	Ballasts for tubular fluorescent lamps - Performance requirements	IEC 60921
	Measurement Method of Total Input Power of Ballast-Lamp Circuits	EN 50294 Amendments: A1:2001 A2:2003
	DC or AC supplied electronic control gear for LED modules - Performance requirements	IEC 62384

- SASO 2885:2018

Electrical Clothes Washing Machines - Energy and Water Performance Requirements and Labeling.

“Approved based on the following testing method standard **EN 60456:2016** - Clothes washing machines for household use - Methods for measuring the performance”

