

CERTIFICATION

HORTICULTURAL LIGHTING

Intertek's Horticultural Lighting Certification Program helps manufacturers develop products in compliance with the North American regulatory safety and performance requirements unique to this growing marketplace.



So, how good is your horticultural lighting product?

Is it

- Electrically safe
- Compliant to ambient requirements
- Meeting the corrosion requirements
- Humidity-protective
- Water-resistant
- UV-protected
- Safe in supply connection
- Toxic-free?

Global LED Horticultural
Luminaire Market Potential

US\$5.11 billion
By 2022

Source: marketsandmarkets

You probably don't know exactly how good your horticultural lighting product is or how to convince your buyers with objective evidence... that's why Intertek is here to help you **differentiate your product so that you can charge more!**

Here are some suggested tests to demonstrate how good your horticultural lighting product is.

Horticultural Lighting Test 园艺照明测试		
Test Category	What is it about?	Key Standards
Electrical Safety 电气安全测试	<ul style="list-style-type: none"> To ensure your product meets and conforms to regulatory safety standards promulgated by safety and standard agencies 	ANSI/UL 1598, ANSI/UL 1598A, ANSI/UL 50E, IEC 60598-1
Ambient Requirements 环境要求测试	<ul style="list-style-type: none"> To ensure your product has an ambient rating of 40°C instead of 25°C 	Temperature test: Clause 12.4.2 of ANSI/UL 1598 Marking: Table 20.1.1, Item 1.6 of Clause 12.4 of ANSI/UL 1598
Corrosion Requirements 腐蚀要求测试	<ul style="list-style-type: none"> To determine the endurance in corrosive environments 	Clause 5.6 of ANSI / UL 1598, Outside-type (non-freshwater) fixtures in Clause 4.1.d or 4.2.b of ANSI/UL 1598A
Humidity Requirements 湿度要求测试	<ul style="list-style-type: none"> To measure your product has a relative humidity of 88% +/-2% at a temperature of 32°C +/-2°C after being exposed for 168 hours to moist air 	Dielectric voltage withstand test: Clause 18.1 of ANSI/UL 1598
Ingress Protection Requirements 防护要求测试	<ul style="list-style-type: none"> To determine the water resistance ability of your product 	Rain and sprinkler tests: Clause 13.4.8 of ANSI/UL 1598 LOC-3, LOC-4, LOC-5, or LOC-6 of Table 13.4.8.1 of ANSI/UL 1598 or IP 65 or higher rating from IEC 60598-1
UV Protection Requirements 防紫外线要求测试	<ul style="list-style-type: none"> To determine the UV protection ability of your product 	Polymeric enclosures: Clause 5.7.1.2 of ANSI/UL 1598 Polymeric material for a water shield: Clause 13.4.4 of ANSI/UL 1598 Gasket material: Clause 13.4.5 of ANSI/UL 1598
Supply Connection Requirements 电源连接要求测试	<ul style="list-style-type: none"> To ensure the safety of the connected supply of your product 	<ul style="list-style-type: none"> Shall be provided with an outlet box for fixed wiring applications, or be provided with a cord Cord connected luminaires shall have a flexible cord of at least the hard usage type

Intertek Certification Program 天祥认证计划

- Safety testing, including ingress protection (IP) and corrosion as applicable
- Performance testing, such as photometric testing per IES LM-79, including PAR and spectral distribution data

Development of Standardized Requirements 标准开发

- Industry associations, such as the American Society for Agricultural and Biological Engineers (ASABE), are currently working on standards specific to horticultural and agricultural lighting applications
- Energy efficiency rebate programs, such as DesignLights Consortium™ are also engaged in developing programs to support the marketplace

Why Intertek Hong Kong?

- One of two authorized testing laboratories in Hong Kong
- Local testing & construction review services in Hong Kong offering convenience in modification and follow up
- State-of-the-art LED Technology Centre housing the most comprehensive commercial third-party LED testing facilities in Asia
- End-to-end Total Quality Assurance Solutions in Assurance, Testing, Inspection and Certification
- Total Quality Assurance Customer Promise: Precision, Pace and Passion
- Innovative and bespoke solutions tailored to every customer's needs
- Super Chemical Centre with 300+ Chemists providing professional chemical-testing services

Want to **add value to your product?** Contact us today!

FOR MORE INFORMATION

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