



# UL can help with your growing business

Safety services for horticultural lighting equipment, oil extraction equipment, and building safety and security

Empowering Trust™

# Are you concerned about safety, security, consistent product quality, risk mitigation and meeting the numerous regulatory requirements? Talk to UL, we have the answers.

**All of the above are important behind-the-scenes fundamentals for grow operations, production facilities, distribution networks and storefront retailers. Getting them right is a must for your success.**

Optimizing growth and increasing production efficiency puts a spotlight on safety. As a result, a key focus is mitigating risk for the equipment used in the cultivation and processing operations as well as premise security.



## UL helps protect your business with safety services

Horticultural lighting equipment, oil extraction equipment, and building safety and security systems are just some of the operational investments that are part and parcel of your business. UL has been providing a full suite of safety services including testing, verification, inspection and certification to a wide variety of industries and businesses across the entire supply chain. All UL services are delivered by our razor sharp technical teams that know and understand the technical requirements inside and out. Additionally, UL's close working relationship with all levels of government and regulatory bodies means that we have a thorough understanding of the safety system.

As an accredited Standards Development Organization, UL develops safety standards for a wide variety of industries. When an industry needs safety standards, UL will deliver. Our technical experts have developed a wide range of standards for industries around the globe.

**UL has over 120 years of expertise in delivering safety standards, testing, verification and inspection services as well as the certification Mark that is most trusted and most recognized around the globe!**



Safety services for horticultural lighting equipment, oil extraction equipment, and building safety and security that you can trust.

### Horticultural Lighting Equipment

Horticultural lighting is one of the fastest growing segments in the lighting market. UL helps you bring your horticultural lighting equipment to the market while ensuring the highest levels of safety and performance by certifying your products and writing the standard the industry has come to trust. Businesses, consumers and regulatory authorities around the world recognize the trusted rigor and technical excellence of UL certifications. Horticultural lighting equipment is evaluated to the requirements in UL 8800, the Outline of Investigation for Horticultural Lighting Equipment.



### PHOTOBIOLOGICAL SAFETY

Light sources for the grow environment commonly produce light in the ultraviolet (UV), deep blue and infrared (IR) wavelength regions, which can potentially be harmful to people. A photobiological safety assessment examines these risks and may be conducted across the full wavelength range in accordance with the requirements in IEC 62471, Photobiological Safety of Lamps and Lamp Systems.

### PERFORMANCE & INGRESS PROTECTION TESTING

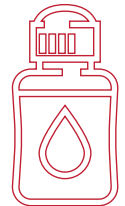
UL now also offers measurement of horticultural lighting equipment by leveraging our custom industry specific test report to provide an objective measure of performance, including a 350-800nm spectral distribution to better understand light output, photosynthetic photon flux (PPF) to illustrate output and efficacy, and optional PPF density (PPFD)

distribution information. UL Ingress Protection (IP) can also be added to help you understand the degree of ingress protection against dust and water.

**For more information, visit [UL.com/HorticulturalLighting](https://www.ul.com/HorticulturalLighting)**

### Oil Extraction Equipment Explosion Protection

The need for plant oil extraction is increasing, and often the extraction process itself creates hazardous conditions due to flammable solvents, including hydrocarbons, being released during processing. To increase safety, UL developed requirements and a certification program for equipment used in the plant oil extraction process. These requirements allow manufacturers to design and manufacture new processing equipment according to a consistent set of criteria and thereby avoid delays in the building permit process.

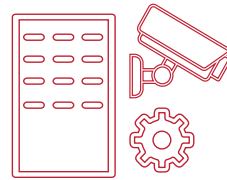


UL offers safety certification of plant oil extraction equipment, including extractors, prefabricated booths/pods, preparatory equipment and post processing equipment. This equipment can be for installation in an unclassified area, or for installation in or involving Class I, Division 1 or Class I, Division 2 hazardous (classified) locations, depending on the product technology and intended use. Plant oil extraction equipment is evaluated to the requirements of UL 1389, Outline of Investigation for Plant Oil Extraction Equipment.

**For more information, visit [UL.com/HazLoc](https://www.ul.com/HazLoc)**

## Premise Security And Fire Protection

With the pace of change accelerating through North America there is a need to support challenges in premise security and fire protection brought on by new industries and new markets. There is interest in traditional loss prevention applications and new opportunities to serve public safety as societal values change.



### SAFETY CERTIFICATION

The certification of alarm services aims to provide a connection of confidence between property owners, service providers, and other stakeholders; including code authorities, insurance companies, and government agencies. The UL Certificate is an alarm company's declaration that an alarm system has been installed, and will be maintained, tested, and monitored, in accordance with the most up-to-date applicable codes and standards. UL lists qualified alarm service companies and providers in compliance with UL 827, UL 681, UL 2050 and NFPA 72.

UL's Mercantile Burglar Alarm Certificate Program helps communities and code enforcement officials actively manage security risks through standards development, certification and field surveillance, and digital compliance management with **ALARMHUB™**.

**For more information,  
visit [UL.com/AlarmService](https://ul.com/AlarmService)**

### BUILDING INSPECTION

Building owners and facility managers are tasked with identifying compliance gaps and needed improvements to deliver confidence in building and occupant safety. The Building Inspection Program provides a complete facility safety plan by working with architects, insurers and building code officials to provide a level of confidence that fire and life safety and security systems will operate properly in the event of a fire.

UL acts as the owners' representative during design, permitting and inspections and can review your policy and procedures to help ensure safe operations.

**For more information,  
visit [UL.com/BuildingInspections](https://ul.com/BuildingInspections)**

## About UL

UL brings clarity and expertise to the global market while empowering trust every step of the way to support the responsible design, production, marketing and purchase of the goods, solutions, and innovations of today and tomorrow.

UL works closely with a variety of diverse stakeholders to help make the world safer by developing standards and offering certification, validation, verification, inspection, testing, audits, and education to help companies navigate the growing complexities of supply chain management and market access.

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