



# Streamline key market access for the legal cannabis and cannabidiol (CBD) industry

Advisory services, testing, certification, inspection, audit and training

Empowering Trust™

# Are you concerned about safety, security, consistent product quality, mitigating risks and meeting the numerous regulatory requirements? Leverage UL's expertise to find 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 premises security.

## UL helps protect your business with safety services

Horticultural lighting equipment, oil extraction equipment, and building fire safety and security systems are just some of the operational investments that are an essential part of your business. UL has been providing a full suite of safety services including advisory services, testing, certification, inspection, audit and training 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 understand the evolving regulatory issues globally. Additionally, UL's close working relationship with all levels of government and regulatory bodies means that we have a thorough understanding of the regulatory issues across the globe.

As an accredited global Standards Development Organization, UL develops safety standards for the legal cannabis industry. In February 2019, UL published the first Standard developed specifically for the legalized cannabis industry in Canada: Standard for Safety of Premises, Buildings and Equipment Utilized for the Cultivation, Production and Processing of Cannabis (CAN/ULC-S4400).

UL is also working on additional national Standards for Canada. These Standards include:

1. Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations (ANSI/CAN/UL/ULC-S1389)
2. Indoor Air Quality in Buildings and Facilities Utilized for the Cultivation, Production and Processing of Cannabis (ANSI/CAN/UL/ULC-S4402)

The development of these new Standards reflects our trusted leadership in Standards development, regulatory compliance, product certification, inspections, and participation in every aspect of the supply chain.

UL has over 125 years of expertise in delivering standards, testing, and inspection services as well as the certification Mark that is most trusted and recognized around the globe.

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## Services for horticultural lighting equipment, oil extraction equipment, and building fire 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 helping you deliver the highest levels of safety and performance by certifying your products and writing the Standards 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 and 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

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. In fact, explosions and fires at cannabis processing facilities are sending workers to the hospital with severe burns which demonstrates the emerging industry's need for proper safety standards. 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.

Leverage UL's advisory services to understand and apply the evolving and complex cannabis compliance and regulations to your business.

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



## Premises security and fire protection

With the pace of change accelerating through North America, there is a need to support challenges in premises security and fire protection brought on by demand from the legal cannabis industry. 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.

Additionally, we provide fire and security certification for a range of products such as fire detection and alarm systems, access control and security systems and physical security devices.

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

### Building inspection

Businesses are tasked with identifying compliance gaps and improvements to deliver confidence in building and occupant safety. Our program provides a complete facility safety plan by working with architects, insurers, investors, 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 or burglary.

UL can act 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)**

### Customer Training

UL offers training with the technical expertise needed to develop, manufacture, install and deploy safer products throughout the global marketplace. This helps to demonstrate a commitment to safety, optimize a risk management approach and keep pace with new technologies and regulations, which result in safer products and installations that comply with codes and regulations.

## 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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