



# Lighting Design

Art and science combined

## Experienced. Dependable. Professional.

Prism Engineering has implementing lighting solutions that meet the needs of our clients for over 30 years. We will help you navigate all aspects of lighting design and support you throughout the entire process from idea to implementation.

### We Offer:

- Leading-edge lighting design and control strategies
- Lighting and daylighting simulations
- Detailed lighting audits
- Unbiased product reviews and recommendations
- Full electrical design support services
- Project engineering management
- Innovative Control Strategies

### Benefits:

**Save Time and Money:** We provide all the necessary documentation and support services required to obtain competitive tender pricing.

**Get the most out of Incentives & Rebates:** As an active Power Smart Alliance Member we help ensure you receive the maximum incentives and rebates for your lighting upgrade projects.

**Ensure Building Code Compliance:** Changes to BC Building Code and City of Vancouver Building By-Law now require compliance with either ASHRAE 90.1-2010 or the 2011 National Energy Code for Buildings (NECB). Our in-depth understanding of these codes and standards will ensure that your lighting upgrades satisfy all the necessary requirements.

**Maximize Your LEED® Score:** In addition to helping you optimize energy performance, our lighting design and simulation services can help you achieve the following LEED credits: Sustainable Sites – Light Pollution Reduction; Indoor Environmental Quality – Interior Lighting; Indoor Environmental Quality – Daylight/Daylight & Quality Views

## Overwhelmed by all the different LED products out there? We can help.

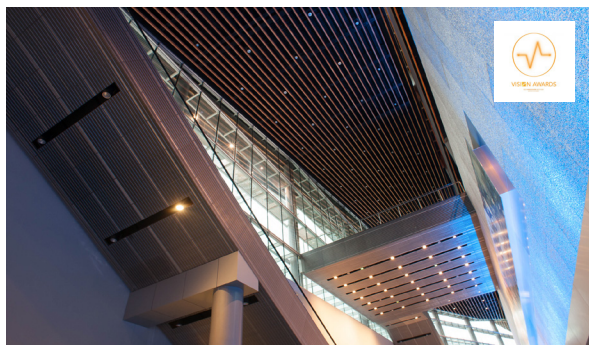
Solid-state light emitting diode (LED) technology is a viable alternative to most traditional light sources. However, it is critical to select the appropriate LED product to realize the full benefits of the technology. With the countless LED offerings, this can be a daunting task. Our skilled team of engineers and designers have reviewed, tested, and evaluated thousands of different LED products to be able to recommend the right lamp or luminaire for most applications. Consider some of these advantages, including:

- **High luminous efficacy:** Typically 65 to 100+ lumens per watt
- **Long life expectancy:** 5 to 20+ years depending on operating hours
- **Dimmable:** Tenable white and colour changing options
- **High colour rendering :** CRI of up to 93 on a scale of 100
- **Instant-on operation**
- **Zero mercury content**
- **Standard and high CRI options**



# Project Experience

Our design team is lead by LC certified lighting professionals who ensure that our knowledge of products and applications is kept up to date. This allows our team to present our clients with innovative, practical, and cost effective designs that are engineered to meet the project requirements.



## Vancouver Convention Centre (VCC)

### BC Hydro Power Smart Lighting Redesign Award

The new LED lighting and integrated controls at Vancouver Convention Center have decreased lighting demand by over 40% and are projected to save 841,000 kWh annually. This project was awarded a 2019 BC Hydro Power Smart Lighting Redesign Award from the Illuminating Engineering Society of BC.



## Richmond Oval

### Illuminating Engineering Society Vision Award

Prism was awarded the Illuminating Engineering Society Vision Award for work on the Richmond Olympic Oval lighting upgrade. Overall annual savings was estimated to be approximately 930,000 kWh consumption reduction, with lighting demand being reduced by over 150 kW.



## Coquitlam Centre

### LED lighting upgrade

The LED lighting upgrade throughout the Mall's main concourses and food court increased illumination levels by more than 4x in deficient areas while achieving a 60% reduction in energy consumption compared to the previous lighting systems.



## Vancouver Community College Broadway Campus

### Parking lot lighting upgrade

Increased safety and security and a 75% reduction in energy consumption was achieved when VCC upgraded to LED luminaires with integrated occupancy sensors and bi-level dimming control. The project is one of many upgrades that Prism has implemented as part of VCC's Strategic Energy Management Plan that generates over 3 GWH of electrical savings annually.