WESCAN
CONSTRUCTION SERVICES

Lighting Upgrades, Designs, Installations and Retrofits

Commercial
Industrial
Education
Healthcare
Institutional
Warehousing
Retail

Lighting Upgrade Design and Installation Services

Wescan Construction Services lighting renovation process provides solutions that fulfill our customers' needs and generate desired and expected results. Our highly experienced lighting team has worked with a variety of organizations in the commercial, industrial, government and institutional markets. We can help develop a customized strategy to optimize your energy savings and bring added value to your investment in a new lighting system. We work with industry-leading suppliers to source products that meet the requirements of our customer's lighting upgrade, retrofit and standardization initiatives.

Efficiency Manitoba

Wescan is an authorized supplier for Efficiency Manitoba and will provide all necessary services to complete the energy efficient rebate incentive application process from start to finish.

- Initial Shop Drawing process to ensure all products are approved for the program
- Completion of all forms and application requirements
- Submittal of closing documents including
    - Itemized Invoicing
    - Permit completion
    - Closing form
- Follow up with Efficiency Manitoba to ensure payout is processed in a timely manner

WESCAN

Lighting Strategy

It is important to establish a lighting strategy that accounts for energy rates, new technology, local utility rebates/incentives, code compliance and improvement to workspaces and productivity.

Goals:

- Corporate ROI, payback requirements and budgets
- Reduction in energy consumption
- Decrease in operating costs – maintenance and repair
- Improved lighting quality/desired lighting levels
- Increased productivity
- Enhanced workplace safety
- Environmental compliance & sustainability – green initiatives

Once we understand the goals for your facility, we perform an audit of the current lighting state and provide recommendations for a lighting retrofit.

Review:

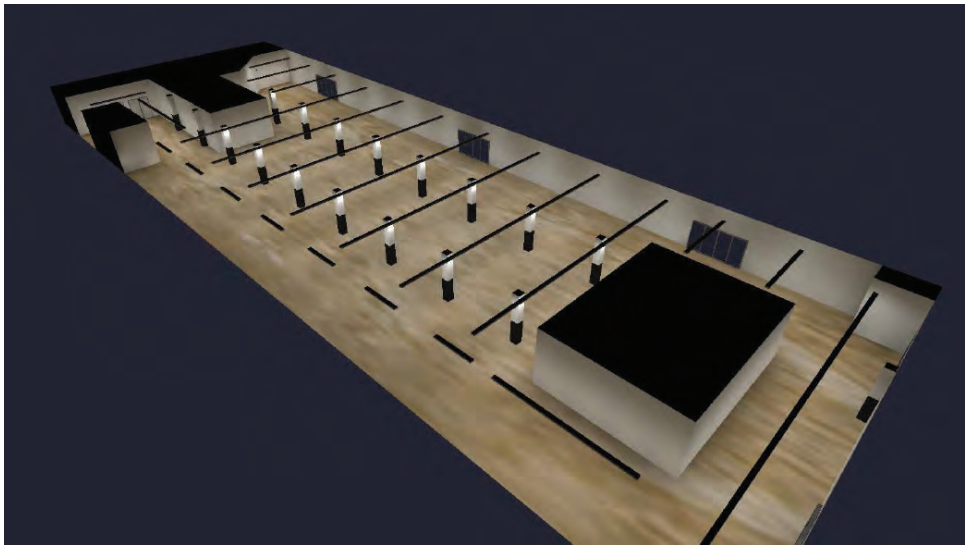
- Audit of existing lighting system
- Discussion of which types of products will best fit the requirement for each area within the facility
- Desired or specified lighting levels
- IES guidelines
- Code compliance
- Detailed financial analysis and executive summary
- Cost analysis, ROI and payback
- Virtual model of the proposed lighting design using leading lighting software.

AGI32 Software Modelling

Typical LED lighting designs dramatically change light placement and improve light levels by using optics that aim the light where it is required. Virtual modelling of the design allows visualization of light levels without requiring the product to be installed first.

Benefits:

- Assess Financial impact
- Specifications for recommended products
- Efficiency Manitoba Incentive for rebates



Assessing Project Priorities

Safety Hazards, Poorly Lit & High/Costly Maintenance Areas

- Upgrading areas where maintenance or energy costs are excessive, or lighting is poor and may create safety hazards
- Replacing existing fixtures with LED lighting in these locations will significantly reduce energy costs, improve visibility, safety & reduce maintenance

Outdoor Lighting

- Outdoor lighting is an area where significant gains can be made in reducing energy and high maintenance costs
- Improving light levels and colour of lighting
- Directing light where it is needed
- Reducing light trespass onto unwanted areas

Highbay/High Wattage Indoor Lighting

- Typical metal halide (MH) or high-pressure sodium (HPS) highbay fixtures consume 1000's of watts and have an average life of 10,000 – 20,000 hours. MH & HPS retrofits yield some of the highest energy and maintenance savings.
- Converting HPS lighting to LED fixtures will produce even more dramatic results in perceived light levels due to the improved quality of the brighter, white light source. Replacement with LED products can result in a 50-70% reduction in energy use with improved light levels & a life of 50,000 – 100,000 hours.
- Our lighting designer will work with you to build the lighting solution that meets the needs for the space. New lighting layouts often prove to be a more efficient use of the space and reduce energy consumption even more.

Existing Fluorescent Lights & Areas in Need of Relamping

- The phase out of T12 and T8 fluorescent lamps and ballasts will require the conversion to LED fixtures or LED lamps.
- There are a number of energy efficient LED products available today that our lighting team is able to provide to reuse existing fixture and upgrade to LED, or to convert all the way to an LED fixture.

Controls & Daylighting

- The implementation of a lighting management & daylighting strategy can improve the results of your energy saving initiatives even further
- Lighting controls range from simple dimmers to full building lighting management systems
- Implementation of a daylighting strategy with daylight sensors and/or other daylighting products is also another factor to consider when installing a control system