



STREETLIGHT RENEWAL

NEIGHBOURHOOD RENEWAL PROGRAM

Streetlights:

- Allow us to travel safely on roadways during non-daylight hours.
- Improve visibility by reducing the glare of approaching vehicle headlights.
- Reveal objects and markings on the roadway beyond the range of headlights.
- Offer a cost-effective way to increase public safety.

Streetlights turn on/off automatically using light-sensitive photocells. These turn lights on at dawn and off at dusk.

DESIGN

All new and replacement streetlights are designed to the City's Road and Walkway Lighting Design Standards. These standards are based on technical guidelines, industry best practices and policies from agencies such as the Transportation Association of Canada. The poles, including decorative poles, are galvanized to inhibit rusting and have a projected lifespan of 75 years.



POLE LOCATIONS

New poles may be relocated to:

- Meet design light levels.
- Maintain legal and safe clearance from utilities.
- Have the least impact on residents.
- Ensure little to no impact on trees
- Have the least impact on residents.
- Give adequate clearance from alleys and driveways.

Location priorities

1. Light the roadway to provide a safe, functional system.
2. Ensure legal/safe clearance from existing utilities, trees and tree canopies.
3. Minimize capital and maintenance costs.
4. Minimize environmental impacts.

In some cases a pole may be placed in front of a property, but only if this is the only feasible option. However, all streetlights are installed entirely on City road right-of-way. Locations are designed to be at projected property lines between houses and still meet recommended light levels. All locations are field checked prior to installation by the City's Street Lighting section, the electrical services contractor and Forestry. The field inspections determine if there are utilities, trees, landscaping obstructions or accesses that may conflict with the initial design. Streetlight poles may need to be moved from the projected property lines between houses or to the other side of the road.



LED FIXTURES

Since 2011 the City has used LED luminaires in all its neighbourhood roadway lighting fixtures. Benefits include:

- **Power consumption savings:** Net power savings for entire neighbourhood renewals can be 40%-60%.
- **Long-lasting fixtures:** LED fixtures last 15-20 years, approximately four times longer than high-pressure sodium (HPS) fixtures. This reduces maintenance costs. The City's fixtures come with a 10-year warranty.
- **Dark skies friendly:** All LED fixtures are flat lens and provide zero per cent uplight, focussing light where it is needed—on the roadway.
- **Reducing CO₂ emissions.**
- **Minimizing light trespass:** LEDs are directional, so light is better designed to light the roadway rather than private property.

DECORATIVE STREETLIGHTS

The City of Edmonton offers decorative streetlights as an option for the Neighbourhood Renewal reconstruction program. Unlike standard galvanized streetlights, decorative streetlights offer a variety of options for colour, pole styles and arm types.

Decorative pole options are standardized to better manage costs associated with inventory control, maintenance and replacement. There is no difference between the power consumption of a standard pole and that of a decorative pole.

To initiate a Decorate Streetlight Local Improvement, neighbourhoods scheduled for reconstruction can submit an expression of interest (EOI) to the City. This EOI requires 50% approval from all property owners within a neighbourhood in order to proceed. If a simple majority (51%) of property owners support the local improvement, City Council will pass a Local Improvement bylaw. Property owners will then pay 100% of the total cost of decorative streetlights above the replacement cost of standard lights. The cost varies depending on the style selected and the number of property owners sharing the expense. The cost will be added to property owners' tax notices and is payable as a lump sum or amortized over 15 years.

