



# METROTOWN PARKADE LED UPGRADE

BURNABY, BC

## QUICK FACTS

- + Shopping Centre Parking
- + 1,500,000 square feet
- + Illuminating Engineering Society, *Lighting ReDesign Award (2018)*
- + Smith + Andersen Electrical





# METROTOWN PARKADE LED UPGRADE

## ABOUT THIS PROJECT

- + Upgraded the lighting of the third largest mall in Canada.
- + Contains nearly 1.5 million square feet of parkade space
- + Contains 2,699 luminaries across two levels of underground parking, and five levels above ground highly-efficient LED lights, saving a monthly average of 44 per cent (3.2 GWh/yr).
- + Used the existing luminaire locations and controls wiring allowed the busy parkade to remain open during renovations.
- + Replaced the old 150W HPS fixtures with 85W LEDs to keep the parkade lighting at an optimal level.
- + Programmed the lights to operate at a maximum 55W, but allow for extra light output during parkade maintenance, and decrease to 16W during times of no-occupancy.
- + Above ground luminaries are enabled for daylight harvesting.
- + Incorporated public safety as a key design element.
- + Each vandal-resistant luminaire includes occupancy sensors, on-board fault diagnostics, and a wireless transceiver.
- + Each fixture communicates with eight to 12 neighbouring luminaries to create a high-density wireless mesh.

**LOCATION**  
Burnaby, BC

**SMITH + ANDERSEN  
SERVICES PROVIDED**  
Electrical

**SIZE**  
1,500,000 sq. ft. (139,355 sq. m.)

**BUDGET**  
Confidential

**COMPLETION YEAR**  
2018

**AWARDS**  
Illuminating Engineering Society,  
*Lighting ReDesign Award* (2018)

## HOT BUTTONS

SHOPPING CENTRE

RETAIL STORES

PARKING

LIGHTING

