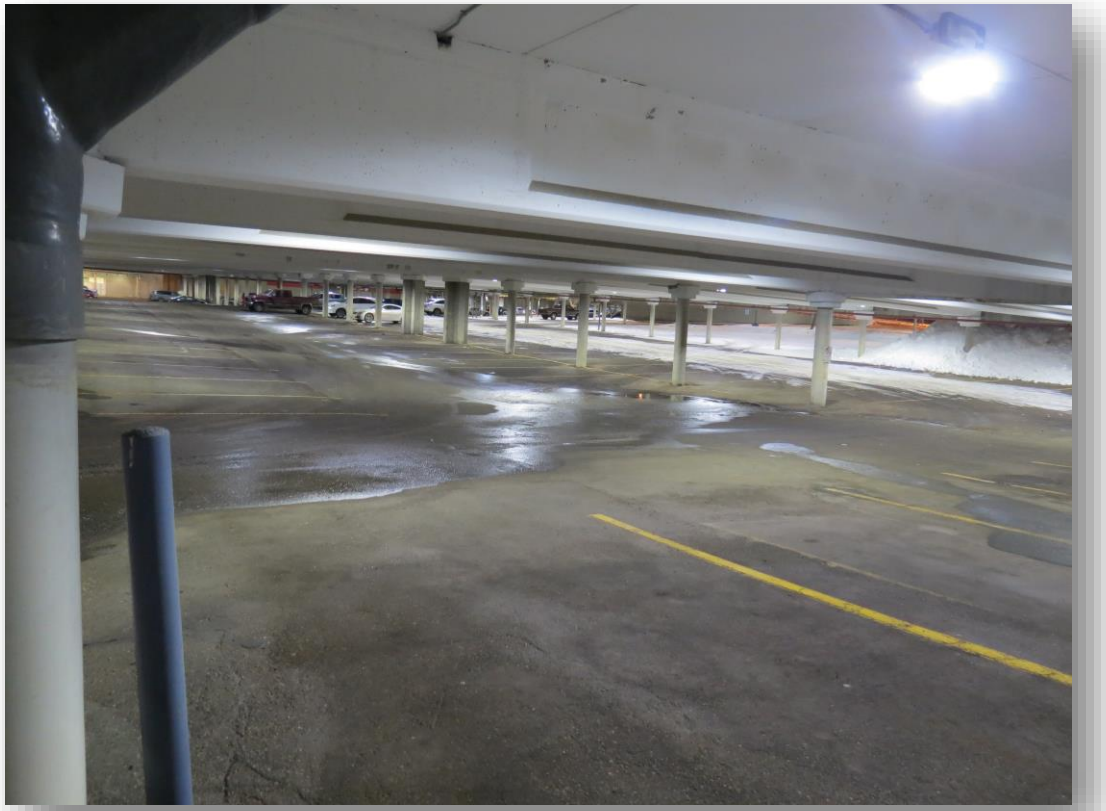
2014 – A Year in Review

YOUR TOP LIGHTING PROJECTS THIS LAST YEAR.

Londonderry Mall Edmonton

- Completed October 2014
  - 862 fixtures
  - LED retrofit
  - Parkade 0.35 FC average
  - Parking lot less than 0.7 FC average

Londonderry Mall Edmonton



- Completed October 2014
  - Parkade
  - Existing 150W HID
  - Replaced with 94W LED
  - From 0.35 FC to 2.69 FC average

Londonderry Mall Edmonton

- Completed October 2014
  - Parking lot
  - Existing 1000 Watt HID
  - Replaced with 223W LED
  - From <0.7 FC to 3.22 FC average

Londonderry Mall Edmonton

- Completed October 2014
  - Parking lot
  - Overall power savings of 64%
  - Payback calculated at ~4 years
  - Expected life 14.5 years @ 6700 hours per year

Saline Creek Pedestrian Bridge

- Located in Fort McMurray
  - Steel Archway acts as a canvas for lighting effect.
  - RGB LED lighting
  - Linear Spread lenses with a 10° beam
  - Pedestrian bollards and security lighting controlled by photocell.

Saline Creek Pedestrian Bridge

- Lighting controls
  - 3 weekly programs
  - Additional programs for holidays and sports teams
  - Can operate stand alone or;
  - Via Ethernet and various local digital and analog inputs.

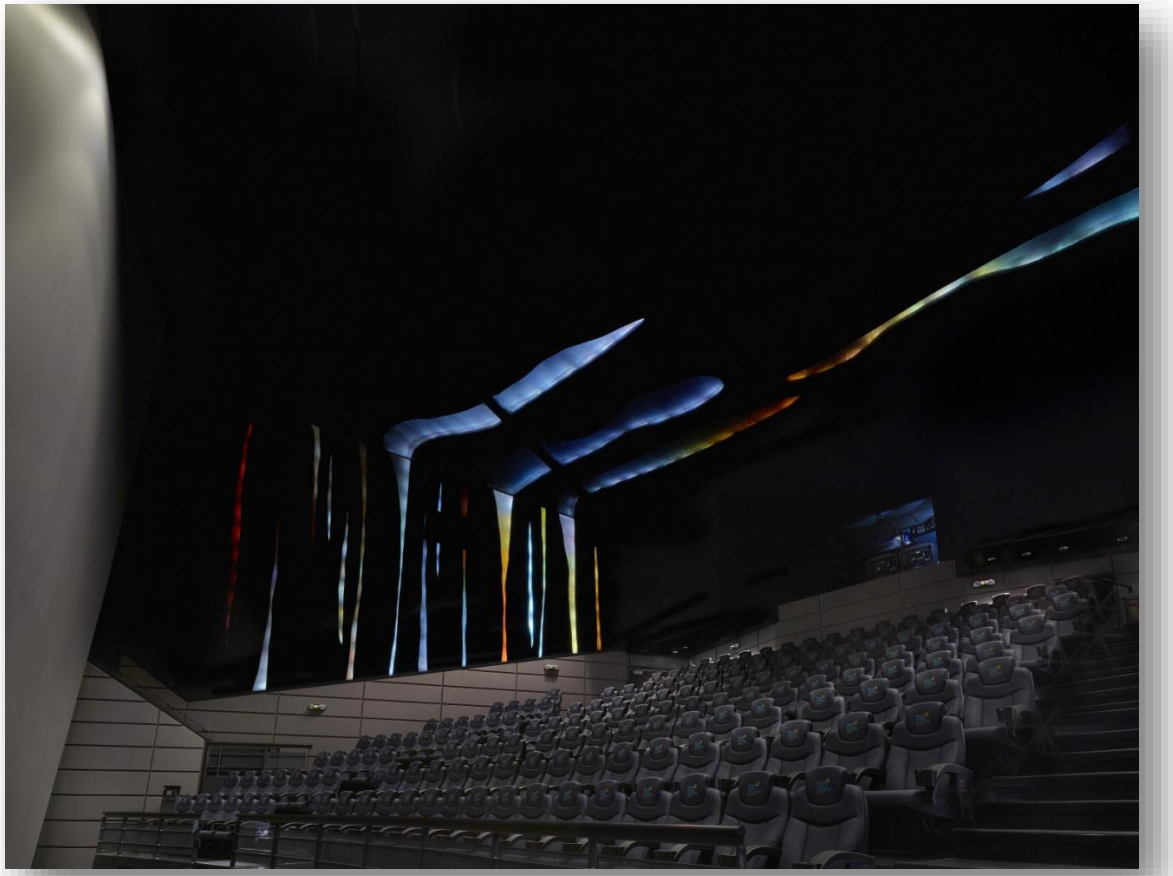
Saline Creek Pedestrian Bridge

- Supplementing the holiday programs, effects include:
  - A complete rainbow spectrum moving gradually across the bridge.
  - A small band of colour shooting or bouncing back and forth across the bridge.
  - A Canada day display with red and white moving gradually across the bridge.
  - A uniform colour gradually shifting between 7 different colours.
  - A fixed multi-coloured display with up to 14 bands.

Telus World of Science IMAX Theatre

- Complete upgrade to the IMAX theatre
  - House lighting
  - Special effect lighting
- Energy reduction in excess of 50%
  - LED Sources
  - Fixtures selected to blend in to architecture when turned off.

Telus World of Science IMAX Theatre



- Lighting system completely automated
  - Triggered by dry contact closures from the automated projection system.
- Multiple control methods used
  - Ethernet / DMX
  - 0-10V
  - Line voltage dimming.

Telus World of Science IMAX Theatre

- Hands on design process.
- Small scale to large scale mock-ups.
- Reduced budget. Effect still achieved.

High Level Bridge

- Landmark Lighting Project
  - LED RGB Lighting
  - Almost 1 mile of linear product
  - 15,000 channels on an Ethernet network
  - 40 universe DMX controller

High Level Bridge

- Mock up, mock up, mock up!
  - Hands on approach determined if the project was even doable.
  - No drilling of structural steel
  - Strategic use of lensing required

High Level Bridge

- Commissioning
  - May / June – when does the sun set?
  - System was completed and designed note by note to synchronize the lighting to the music for the big Canada day reveal.