



## VALE Mines in Sudbury Canada

Over 400 units of Andromeda™ luminaires are installed in VALE mines in Canada including Stobie, Creighton and Coleman. A variety of the Andromeda™ series are in use including flood, linear, park and high/low bay luminaires are used in a diverse array of applications including:

- Underground lighting – passageway, equipment and long wall.
- External flood lighting – yard, loading areas, and external building lighting.
- Internal high and low bay lighting – warehouses, storerooms and workshops.

The earliest Andromeda™ luminaires were installed in early 2011 with the replacement of HID lights on site continuing in 2014.

With approximately 400 luminaires in use, the failure rate in this highly challenging environment has been 0% with no reported issues. Previous failure rates of HID were recorded at an average lifespan of 9000 hours.

### Key deliverables:

- Replacement of luminaires
- Maintenance including cleaning cycles
- Power savings including start up and reduction of HVAC
- Safety and recycling

*“Empyrean’s Andromeda™ series of luminaires has become our preference for underground and warehousing lighting applications. They are heavy-duty and perform above our expectations, they also seem to last forever. I would recommend these lights for any Mining application.”*

**KEN MOORE, ELECTRICAL/PURCHASING VALE STOBIE MINE**

### SUMMARY OF RESULTS

Lifespan (longevity)  
**455% ↑**

Maintenance (time)  
**94% ↓**

Power Savings  
**50-80%**

Durability Rating  
**IK08 & IP66**

For details regarding calculations, please contact Empyrean Lighting