

RIG CROWN LIGHTING



with ZLM Luminaires

 **Nemalux™**

Case Study



Hinton, Alberta

Lighting a Drilling Site Effectively

Increasing worksite safety & productivity

High-output, optically-controlled floodlights mounted at the top of the drilling rig deliver 360° coverage.

Positioning LED floodlights at such an elevated mounting location reduces the potential for glare, increases visibility throughout the site, and substantially reduces maintenance and rental costs.

Conducting drilling operations during the night is a complex undertaking. Inadequate illumination and excessive contrast between different zones create safety risks.

Conventional approaches include installing light towers and building-mounted luminaires to achieve target light levels in certain areas. This approach can fall short of delivering minimum recommended light levels.



ZLM Modular Luminaires

22,000 - 28,000 lumens per module
10.0 kg | 22.0 lbs
15.5" x 6.8" x 7.1"



Efficient illumination supports worker safety, reduces environmental impact, and promotes streamlined operations.



Performance of the ZLM

Lower Energy Consumption

Transitioning from older HIDs to new generation LEDs reduces power consumption by up to 50%.

Benefits of Solid-State Lighting

LEDs are inherently vibration resistant, enabling the construction of robust and industrial grade lights. They offer a higher lumen efficiency, produce less heat and can remain mounted on equipment during transport.

Improved Visibility

Upgrading conventional HPS to ZLM LED lights enhances visibility for the human eye. Increasing the visual alertness and acuity to support the performance of operators. The colour temperature increases from the low 2,000K range (orange) to 5,000K (crisp white).

Maintenance Free Operation

In strong contrast to conventional HIDs, the ZLM has a rated system life of up to 60,000 hours. Eliminating the need for replacement parts for up to 10 years (at 12 hours per day ON time).

Improved Illumination

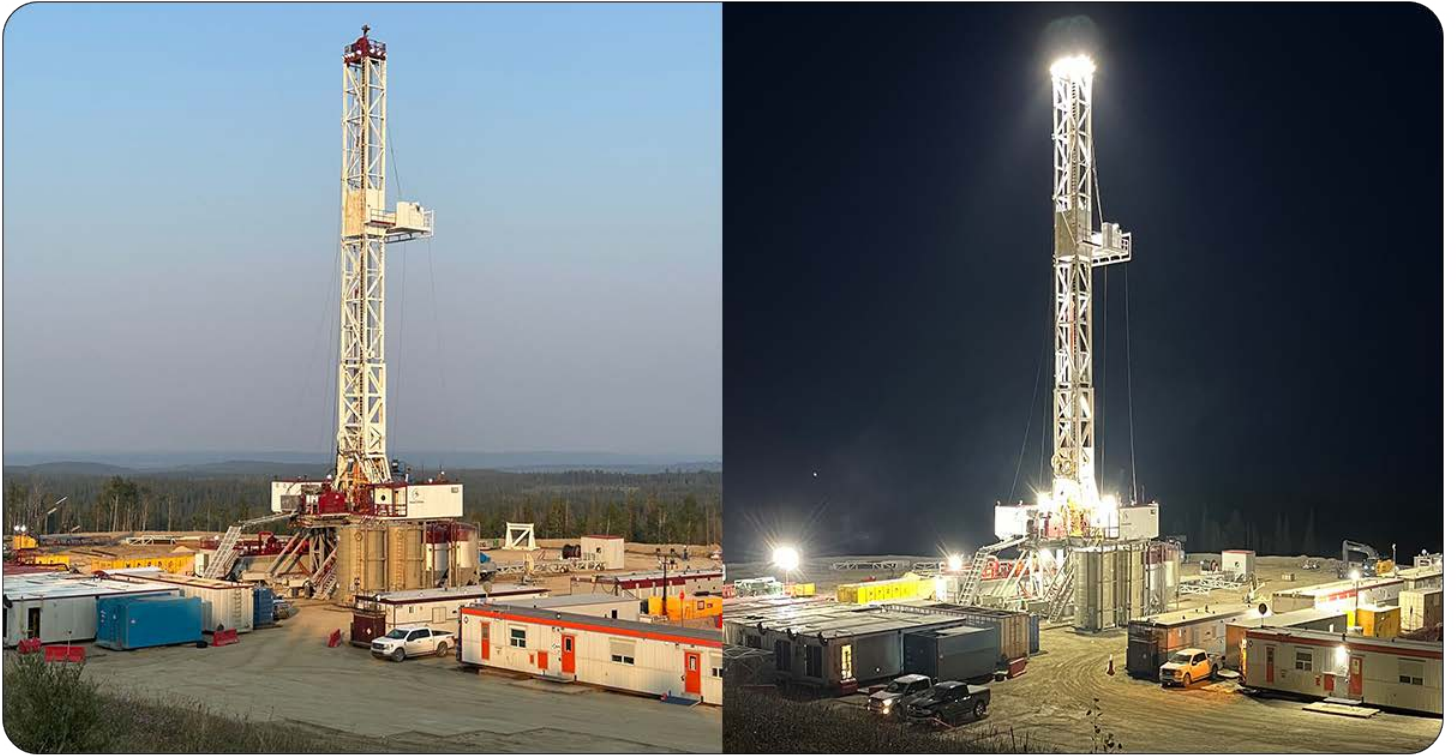
Non-uniform light distribution with conventional lights can pose a safety hazard. Impairing the ability to detect objects and pose challenges for the workforce. Superior optical control of the ZLM offers increased uniformity.

Improved Safety

Better visibility for operators helps with the prevention of trip and fall incidents. Safe movement within these complex areas requires high quality illumination. ZLMs help achieving industry specific target light levels while reducing the number of lights required.



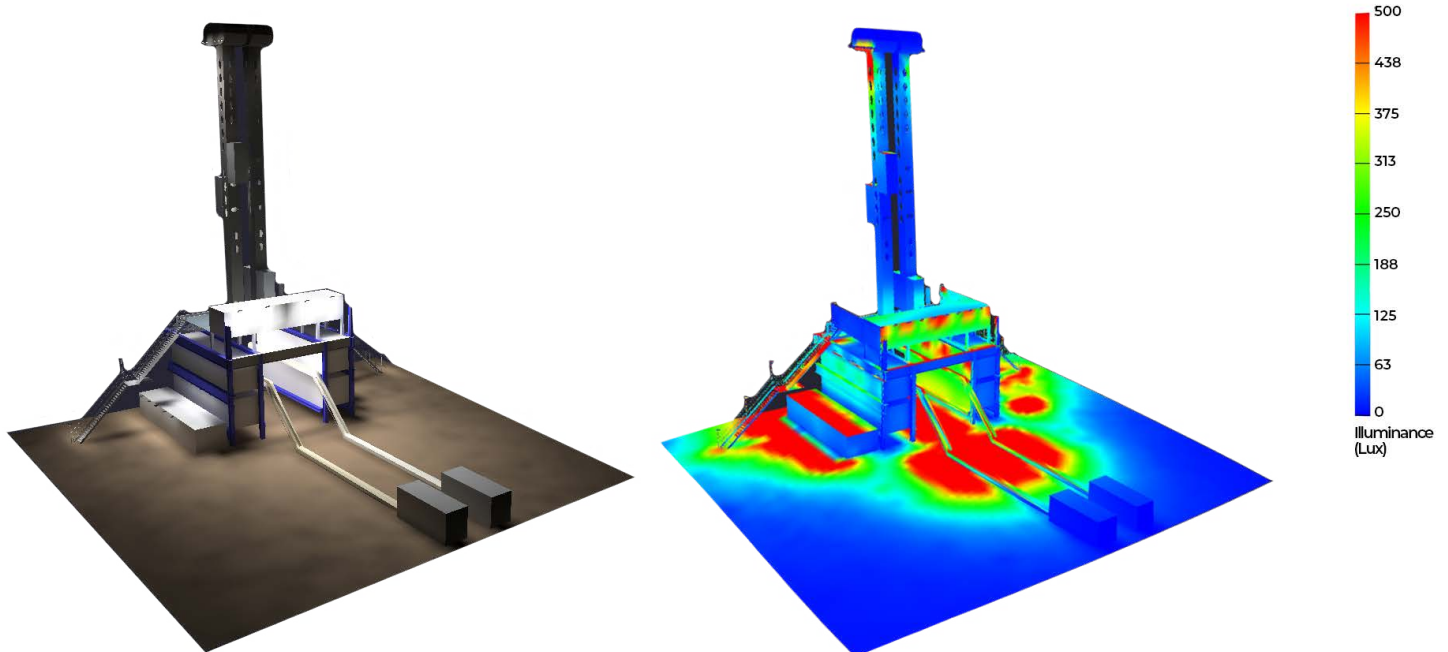
Operator safety on remote lease sites is a critical lighting priority. A comprehensive lighting strategy that accounts for unique challenges is key.



Design Services

We provide complimentary lighting design and customization services for industrial applications.

Worksites considering installing or upgrading a lighting system can face many challenges. Lighting design is a critical step to address safety and work towards positive outcomes on-site. Optimizing for target light levels and quality, while reducing fixture counts. Energy and carbon emission reductions are typical for a well-executed strategy. While reducing capital investments and maintenance costs are a positive benefit.



Customer Testimonial

Nemalux's design team was helpful in the specification of the lighting strategy. They adjusted for the different heights of our equipment and light coverage on sites.

Nemalux lights are lightweight compared to other lights we had looked at. We installed the lights on all our equipment without exceeding the raising loads on masts. During transportation and rig up, the small size of the ZLM permits them to remain in place. This feature eliminates increases to rig-up time for our customers, a challenge with other models. They also worked with us on our secondary overhead retention needs.

With the ZLM package, we have nearly eliminated all light trespass, allowing operation near farms and residences. The higher energy efficiency permits using the lights with existing electrical circuits on our equipment.

It is a better lighting package than any solution we have rented in the past.

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