

Phoenix Lighting – an OEM standard

Phoenix Lighting is for many OEMs a standard for floodlighting. It told **IM**: Leading OEM equipment manufacturers select our ModCom 3 floodlight due to its time-tested durability, modular design, robust components and quick connect wiring system. All of these considerations ensure high durability and reliability in harsh environments, reduce downtime and enhance mineral output. The ModCom 3 driver and wiring is completely sealed within marine grade castings which makes wiring easier, improves safety, increases longevity of the fixture and reduces electromagnetic interference." Smart temperature sensors within the fixture prevent premature failure due to excess heat by throttling back light output as needed. Additional smart sensors measure sustained fixture shock and angle position, which provides an additional rich data set for safety and reliability.

ModCom 3 offers remote mounting of the driver, housing shrouds and various mounting brackets with same patterns to make the process of replacing lighting easier than ever before. Improved heat sink design allows dirt/dust to be washed out of the heat sink while increasing heat dissipation which ensures the fixture lives up to the harsh, dirty environments. The fixtures undergo extensive in-house and third-party testing, including IP ratings, shocks, voltage spikes, extreme temperature fluctuations, and quality-per-OEM testing requirement. Due to both high durability and reliability, the ModCom3 floodlight is also used by US Navy combatant vessels for critical lighting applications.

Phoenix says it can provide an entire machine's worth of lighting for large scale AC machinery, drills, and mobile equipment. "Our team of professionals include market managers for the top regions and expert advice from both OEM market manager and aftermarket managers. Specialised engineers simplify the process by creating lighting formulas tailored to each piece of equipment and included details like exact fixture models, optics, and installation location." Mining OEMs have standardised on Phoenix's lighting solutions since the 1940s which over the years has provided an extensive knowledge base in terms of fixture safety, reliability and optimised application.

It is also safety focused offering LED ranges to distinguish danger/safe zones. "It creates an apparent line where the swing radius or other dangerous environments exist. New & improved high temp optics maximise fixture's performance (light only where you need it) and longevity (high temp optics last in the most demanding environments).



Phoenix Lighting is also safety focused offering LED ranges to distinguish danger/safe zones

New, no glare optics, are ideal in perimeter locations where oncoming haul truck operators currently experience glare during night time operations. No glare optics eliminates disruptive glare that is caused by traditional floodlights as haul trucks or other auxiliary equipment approaches the shovel or dragline."

Back to ModCom 3 and Phoenix says it is also committed to serving the mining industry with quality light fixtures and evolve with the industry as priorities shift and technology advances in smart lighting. Its ModCom 3 Series offers work areas with a lighting package that can change colour temperature and brightness based on preference and the environment. "With the user interface installed in the machine's cab, various optimised scenes can be selected to adjust the colour and illumination levels of specific lights from white to amber, while dimming other lights that are nearest to the operator cab. This helps increase operator visibility which result in improved operator safety, lowered fatigue and projected decreases in cycle times."

This system offers full control of the lights to the operator to improve nighttime visibility, especially when heavy fog, dust, snow or rain are present. Other technology advancements include over-temperature protection-NTC sensors on LED boards that will preserve the life of the LEDs as fixtures will dim when they exceed the rated temperature or are exposed to excessively dirty lenses. The fixture returns to full output when the issue is resolved.

communications, each product within the GuardIAN Network is purpose engineered to embrace five main principles, whilst taking standards in industrial safety to the next level.

Underground Smart Lighting from the GuardIAN Node range provides sites with the

ability to provide a visual alert when evacuation is necessary and assist in guiding personnel safely to the nearest available refuge chamber. The Smart Light also doubles as a UWB tracking device, reporting on the location of all personnel underground. Controlled and monitored via the

GuardIAN Network, the Lighting Nodes can also be utilised alongside GuardIAN Gas Monitoring Nodes and GuardIAN Tracking Nodes; providing a complete safety solution for underground mines.

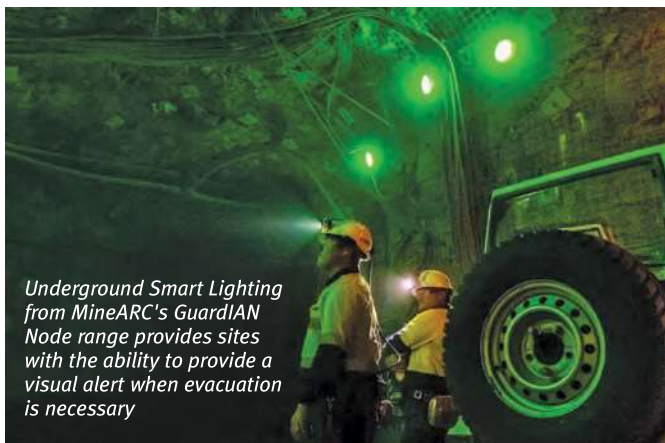
GuardIAN Smart Lighting aids in personnel navigation during an emergency scenario; marking a clear visual path to the closest safe refuge.

Controlled by the complete GuardIAN Intelligence Network, the lighting nodes will change colour to indicate safe or dangerous routes based on gas levels detected in the area.

Coolon deploys Brilliant Connected Lights at underground NORCAT facility

Coolon Brilliant Connected Lights have made an impact in the mining industry both in Australia and internationally since their initial release in 2021. Providing a streamlined and friction-free solution to enabling digitisation on mining and industrial sites, these fittings do not only represent disruptive innovation but offer a digital backbone for thousands of emerging ground-breaking IoT services and technologies, enabling customers to pick and choose whatever provider suits their particular needs the most.

Having completed numerous successful installations on mine sites all over Australia and



Underground Smart Lighting from MineARC's GuardIAN Node range provides sites with the ability to provide a visual alert when evacuation is necessary