



# MOBILE PLANT AND EQUIPMENT

# “extended lamp life”



Turbo



EYE HOF 201



Bering

**Vibration** and cost of maintenance are the key considerations when selecting lighting equipment for mobile plant and equipment. If the lighting equipment will not withstand vibration, all other qualities of the luminaires and associated control gear are of no value.

The cost of unplanned luminaire breakdowns can quickly surpass the minor extra investment required for fixtures that are designed for vibration prone environments. In fact, incorrect luminaire selection can result in lamp replacement costs that exceed the initial cost of the luminaire within a few months of the initial installation.

Luminaires must also provide lighting that is suitable for the operational requirements of a specific type of mobile operation. Mobile plants include draglines, electric shovels, dozers, bridge cranes, travel lifts, drills and portable lighting towers. The other factors that need to be considered include a luminaire's performance in high temperature environments, consideration of the IP rating required for dusty or wet environments, lamp efficacy where long operating hours are involved, the lamp colour temperature and lamp colour rendering performance.

## Key considerations include:

- Ease of maintenance
- IP rating
- Ambient temperature requirements
- Lamp efficacy
- Lamp colour
- Beam pattern (light distribution)