



Sirius-LUX

Corded Cap Lamps

A new generation of cap lamp is here...



SIRIUS-LUX
CORDED CAP LAMP



CL-SIR-L-CDD

The world's leading manufacturer of emergency life-saving refuge

Company Profile

MineARC Systems is the global leader in the manufacture and supply of emergency safe refuge solutions for the mining, tunnelling, chemical processing and disaster relief industries.

With over 15 years' experience, our dedication to ongoing research and development is driven by our key focus to continually offer the best and most advanced safety solutions on the market.

Our team of qualified engineers, electrical designers and technical experts form a global network across six international locations including;

- Perth, Western Australia
- Johannesburg, South Africa
- Dallas, Texas
- Santiago, Chile
- Beijing, China
- Barcelona, Europe

This allows MineARC to provide 24 hour service and engineering support to our expanding list of clients in over 40 countries across the globe.

All MineARC Refuge Chambers and Safe Havens comply with the highest international regulations and recognised 'world's best practice' industry guidelines. Our key focus on quality control and product advancement has meant that MineARC Refuge Chambers have successfully saved lives in multiple real life industrial emergencies around the globe.

www.minearc.com



Bureau Veritas ISO
9001:2008 Quality
Management Systems



ISO 9001 Quality Rating

SiriUS-LUX Cap Lamps

A reliable light source is of utmost importance in an underground environment, with personnel dependent on clear visibility to operate safely.

Defining the future of the humble cap lamp, the SiriUS-LUX Corded Cap Lamp boasts greater efficiency, interchangeable batteries, improved illumination, automatic light adjustment and advanced tracking software.

- ✓ Improved illumination
- ✓ Automatic light adjustment feature
- ✓ Integrated navigational tracking
- ✓ Sophisticated battery charging
- ✓ Power-saving mode

- Water resistance: IP68
- Cable length: 1m (1.5m when stretched - see page 6)
- Battery duration: up to 18 hours
- Rated capacity: 10.4Ah
- Rated voltage: 3.7V
- Rated current: 2A
- Beam Angle: Adaptive

Mode	Lumens
Soft	85lm
Wide	171lm
Mix	202lm
Spot	234lm
Turbo	888lm



Standard Features

- Narrow beam for clear focus
- Wide beam for dispersed, far reaching light
- >90 Colour Rendering Index
- TURBO mode for short-term, high intensity light
- Automatic light adjustment
- Low power mode at 80% depletion for longer battery life
- Lightweight curly cord that reduces risk of pull
- Universal cap lamp attachment
- 10.4Ah modular, quick connect battery included (spare batteries available)
- Can be charged by included USB cable and wall adaptor
- RFID tracking chip included (13.56MHz. ISO 15693 & ISO 18000-3)
- Optional: Real-time tracking upgrades available



SiriUS-LUX

- Illumination

Dual-Beam LED Lighting

The SiriUS-LUX Cap Lamp features two unique beams; working in tandem to deliver a better field of vision for personnel.

- A narrow beam provides focus
- A wide beam provides a more dispersed, further-reaching flood light

The dual-beam operation ensures a crisper and more natural light is projected.

The inclusion of a 'TURBO' mode allows for short-term, high intensity LED light. TURBO mode provides a powerful light for a short period of time if required, without completely draining the battery.

In addition, 'Attention' mode - activated by pressing and holding the TURBO button - results in a continuous light pulse; designed to provide a clear visual alert.



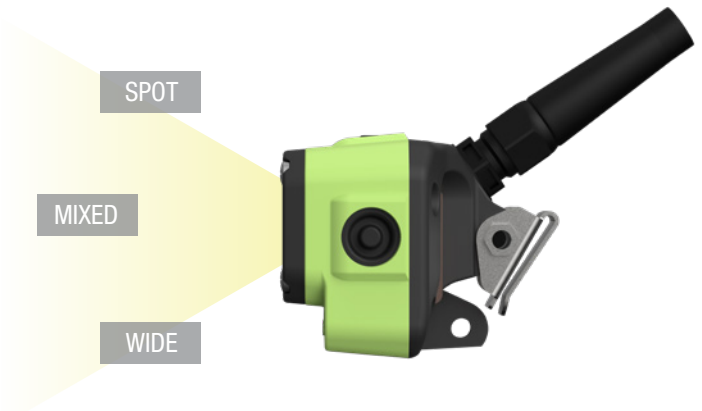
SiriUS-LUX

- Light Intensity

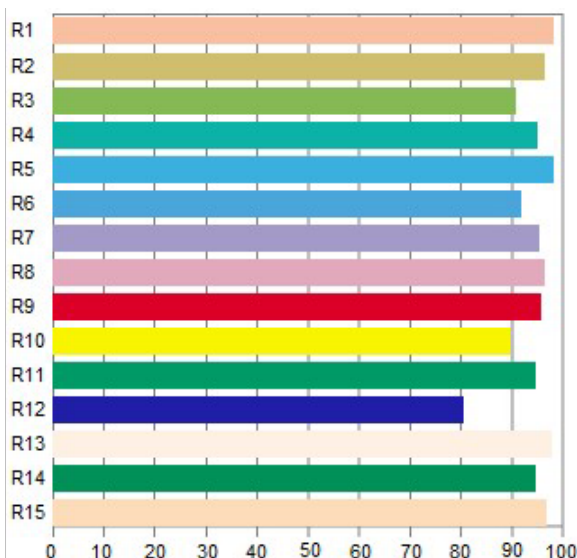
Automatic Adjustment

An automatic light adjustment feature reduces any safety concerns associated with the startling glare of high beam in the eyes when looking directly at a coworker. Ambient light intensity, including that of other lamps, will allow automatic dimming for close contact comfort during group situations.

Further to this, tilting the lamp toward the ground will reduce the light intensity to the wide beam; providing the ideal conditions for looking at objects (such as a tool bag) in close proximity. As the lamp moves back to horizontal and above, the lamp will weight the power to a spot beam.



Colour Rendering Index (CRI)



The SiriUS-LUX Cap Lamp boasts an impressive improvement to the Colour Rendering Index rating. Colour Rendering Index (CRI) measures - on a scale of 1-100 - the ability of a light source to accurately render frequencies of the colour spectrum, compared to daylight.

Existing cap lamps in the market have an approximate CRI of 70 colour accuracy, however SiriUS-LUX features a CRI of greater than 90.

- This improved CRI rating allows for a more comfortable user experience.
- This is most beneficial to those relied upon to detect subtle changes in colour, such as those in the geology or electrical field of work.

SiriUS-LUX aims to emulate natural daylight as closely as possible.

SiriUS-LUX

- Additional Features

Unique Curly Cord

The SiriUS-LUX Corded Cap Lamp features a purpose-designed lightweight curly cord, providing additional cable length whilst still hugging the body.

This unique feature ensures miners can move freely without interruption, preventing instances of the lamp cord getting caught; leading to sudden, unexpected removal of the lamp from a miners head.

MineARC understands that ease of movement underground is paramount when it comes to personal safety. For this reason careful consideration has been given to developing a solution that is lightweight, yet durable; allowing a full range of movement for the wearer.



Universal Attachments

The SiriUS-LUX Corded Cap Lamp features two attachments, making it compatible with a range of headware and applications.

A generic hardhat clip means that it can be secured to all standard hard hats and helmets.

In addition, a universal mounting bracket (similar to a GoPro) ensures that the lamp can be utilised with almost any style of mount, harness or personal headwear.



HARDHAT CLIP

UNIVERSAL MOUNT

SiriUS-LUX

- Power and Charging

Power-Saving Mode



A 'low power' mode is a major functional feature of the SiriUS-LUX Corded Cap Lamp. When the lamp battery reaches 80% depletion, the lamp will flash; indicating it has entered 'low power' mode. The lamp will then dim; using less power and extending the lamp's life span by an expected two hours – more than enough time for personnel to swap over to a fully charged battery.

Battery Charging

SiriUS-LUX Cap Lamps provide on-going cost saving benefits to sites, thanks to the unique charging solution.

Existing cap lamp designs are tied – quite literally - to the charging racks, with the lamp unable to be used until the battery is adequately charged. This reduces the usability of the lamp, resulting in large quantities of spare cap lamps being required on hand at all times.

A modular quick-connect battery responds to this inflexibility; allowing maximum versatility for users in a robust design that is both water and dust proof.

- Clip-in battery system allows for independent charging of batteries, negating the need for the lamp module to be present during the charging process; resulting in a significantly more compact charging rack system.
- Additional spare batteries can be kept on hand, equipping personnel with the resources to maintain productivity and ensure safety on the job.

The SiriUS-LUX Cap Lamp's unique, modular quick-connect battery system is designed to be compatible with future MineARC products; resulting in a multi-use battery that is interchangeable between entire product ranges.



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