

MSL has incorporated LED technology (Light Emitting Diodes) as a new generation light source. LEDs outperform halogen lamps when comparing light efficiency and service life.

Specifications and sales have confirmed that the LED models have been accepted as the preferred option.

KEY MSL LED FEATURES AND BENEFITS:

- **15 Watt 7-LED** is a complete compact light module comprising LEDs, driver and lens specifically designed for medical examination lighting tasks.
- **Higher Illumination** - increase of approximately 35% @1000mm compared to 50W IRC halogen lamp.
- **Colour Temperature** - 4546°K.
- **Colour Rendering Index** - CRI 93.
The light has a daylight character producing more natural colours providing the extra accuracy in colour perception that is required for better tissue differentiation.
- **Cyanosis Observation Lighting** - has been independently tested and complies with the Australian/New Zealand Standards (AS1680.2.5:1997). This is an important Standard that takes into account the strict guidelines applying to the use of lamps in the diagnosis of patients in hospital wards, medical clinics and associated treatment/observation areas.
Requirements are:
 - (a) A correlated colour temperature (CCT) between 3300°K and 5300°K.
 - (b) A Cyanosis Observation Index (COI) of not greater than 3.3.
- **Beam Viewing Angle** - The standard module has a precision engineered lens and reflector design which delivers a controlled 8.4° light beam maximising the examination light's performance.
Note: for special applications medium and wide beam lenses are available.
- **Cool** - LEDs emit nearly 100% of their energy as light, without the damaging heat providing greater patient/operator comfort.
- **Emits no damaging infrared or ultra violet light.**
- **Low Energy Consumption** - approximately 70% power savings compared to 50W halogen lamp.
Long Service Life - Expected rated life (depending on hourly use):
 - 1 x 15W LED: 35000 - 50000 hrs.
 - 1 x 50W halogen: 2000 - 4000 hrs.
- **Thermal Management** - MSL light heads are designed for the LED module. The LED's life is maximised by:
 - Purpose designed heat sinking.
 - All metal construction to dissipate heat.
 - Vented design.
- **High Shock Resistance** - robust due to their solid state construction.
- **Environmentally Friendly** - The LED modules contain no toxic substances.

