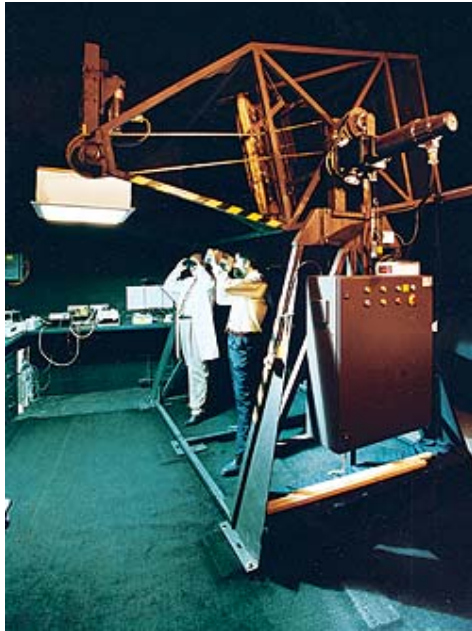


## Testing



As part of a world leading luminaire manufacturing company, Thorn Lighting Australia is often approached to provide total lighting solutions for major new projects, developments and refurbishments. Having done this over many years on a range of prestigious projects Australia wide, we understand the value of high quality lighting and what is required to complete a project.

To ensure that all luminaires are constructed from the highest quality materials, have superior energy efficiency and overall best performance, they are tested in an autonomous testing laboratory located within the Smithfield, NSW manufacturing site. With such close proximity to manufacturing, testing does not delay the design process.



Photometric testing and evaluation of a New Squarelux HID luminaire.



Thermal testing of a BHB to determine its permissible operational ambient.

The Thorn lighting laboratory is certified to AS/NZS/ISO9002 and is NATA accredited for various electrical tests on luminaires. Other testing includes photometric, general electrical and electro magnetic compatibility (EMC), which ensures luminaires produce a minimum amount of excess energy. It also determines luminaire LOR efficiency using an integrating sphere with reference lamps. Plastic components and metalwork is also evaluated to ensure quality and benchwork performances including general suitability and longevity. Lamp rack ageing, starter switch and ignitor operating performance parameter testing is on-going.



Electrical component safety check

The laboratory bases its quality system on the requirements for NATA accreditation, ISO guide 25 for laboratories and the AS/NZS/ISO 9002 standard. Tests confirm new product developments and are also used to improve existing luminaires. The laboratory also conducts quality assurance testing and investigates field difficulties and service issues in order to maintain consistent standards.



A Haline floodlight undergoing an IP rating evaluation.

## Electro Magnetic Compatability (EMC)

Global pollution in both visible and invisible forms is on the increase and affects our planet's natural balances and peoples' health and safety. Pollution of the electro magnetic spectrum is one form of pollution which has until recently been ignored. It is produced by electrical appliances radiating excess emissions.

On the 1st of January 1999, the Federal Government introduced mandatory requirements for electro magnetic compatibility (EMC), which aim to prevent further pollution of Australia's electro magnetic spectrum. The new requirements mean all electrical products must emit a minimum amount of electro magnetic radiation.



EMC (electro magnetic compatibility) testing of the Europroof, in a highly specialised rig for C-tick compliance.



C-tick mark

Thorn has ensured that its lighting products comply with the EMC regulations by installing state-of-the-art test equipment in its on-site NATA accredited testing facility. Complying products carry the 'C-tick' mark.