



CORRECTION FACILITIES LIGHTING





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# LIGHTING IN CORRECTION FACILITIES

Enhancing wellbeing through the lit environment

Light can significantly contribute to the quality of a space, supporting well-being and safety. In correctional facilities, durable, high-quality lighting is essential for security, rehabilitation, operational efficiency and safety. Our New Zealand fittings are designed to withstand demanding

environments, ensuring longevity while minimising maintenance costs. By choosing local, we support New Zealand industries, reduce carbon footprints, and promote sustainable practices. With a focus on energy efficiency, our solutions provide optimal illumination while lowering power consumption.





Turanga  
Artist: Tāwhaki, by Fayne and Caleb Robinson  
Architect: Architectus  
Featuring: Energyline

# NEW ZEALAND LOCAL

## Choosing to support NZ

The image in our mind of “Made in New Zealand” goes far beyond just the assembly of imported components. It reflects a sense of identity, a depth of capability, and a world-beating innovation born from a culture of resilience through isolation.

Therefore, claiming to be ‘Made in New Zealand’ brings a responsibility. Responsibility to a local supply chain, local component manufacturers, local businesses, local employees, innovation, and an export mindset. A culture of innovation drives our New Zealand manufacturing forward, bringing new value for clients through products that last, speed up installation, can be reused or re-fitted at the factory, or recycled at the end of use.

Through both our manufacturing and supply, we are committed to choosing local first, Regional second, National third, and further beyond only for specialist product or when all other options are exhausted.

These are values for clients which, when chosen, support the growth of New Zealand Inc.





# COMMUNITY

## Going beyond to support NZ

Energylight is deeply committed to community engagement and social responsibility, partnering with local businesses and actively organising charity events within the industry that make a real impact. Each year, we run events like Rocker Cover Racing (seen in the photo to the left) and Gumboot Friday, bringing people together while raising upwards of \$2,000 per event for important causes such as mental health support and local charities. Additionally, for every box of Energylight linear lighting sold through Energylight, \$1 is donated, creating an ongoing stream of support for local initiatives.

Beyond fundraising, we offer carbon offset opportunities for our customers, with contributions directly supporting Flax Hills Forever Forest project in Kaikoura—ensuring that every lighting purchase has a meaningful environmental impact locally here in, Canterbury, New Zealand.

Energylight also champions social sustainability by employing 60+ team members, including day and night shift factory workers, creating stable jobs and supporting work-life balance. We invest in professional development, ensuring our team has opportunities to grow and succeed.

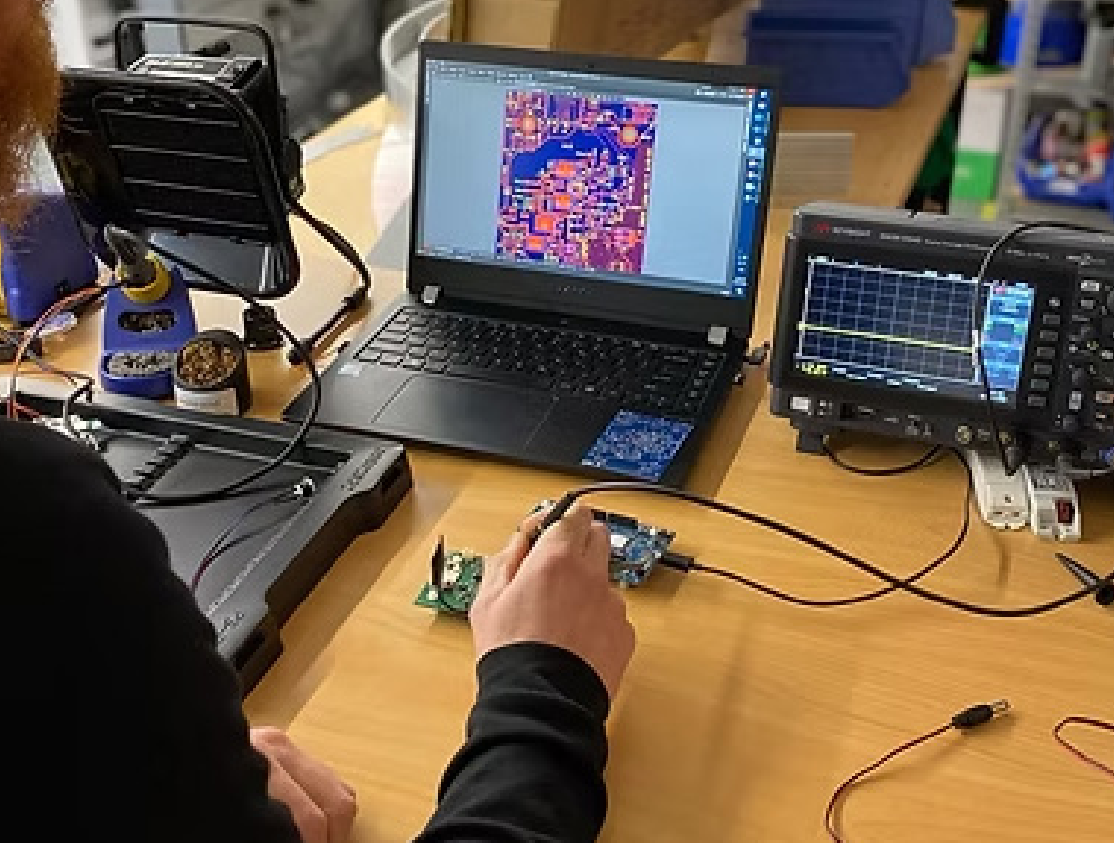
By leading charitable efforts, supporting sustainability, and fostering a thriving workforce, Energylight is dedicated to making a lasting difference—both within our company and across the wider community.



Example of charity sticker on every box



Charities donated to through various events over last 3 years



# INNOVATION

## The ability to change and adapt for the future

By producing custom and configurable lighting systems locally, Energylight ensures that products are tailored to meet the specific needs of correctional facilities, emphasising safety, durability, and efficiency. Our dedication to innovation, in conjunction with local consultants, is evident through advanced solutions like Salvalux, an NZ-made anti-ligature luminaire designed as a 'home-like' and secure installation. Meeting and exceeding healthcare and correctional facility regulations, Salvalux enhances safety while maintaining high lighting performance and aesthetic. This resulted in a 5 star Mental Health facility right here in Christchurch.

Having manufacturing facilities in Woolston, Christchurch offers several advantages:

- Quality Control – Proximity ensures stringent oversight during production, guaranteeing reliability in high-risk environments.
- Supply Chain Reliability – Local production reduces dependence on international suppliers, ensuring timely and uninterrupted supply.
- Sustainability – Lower transportation emissions align with eco-friendly initiatives.
- Economic Support – Investing in local manufacturing strengthens the regional economy and supports skilled jobs.
- Innovative Support -- Able to provide future solutions that haven't been discovered yet.

By choosing a New Zealand-based manufacturer like Energyline, correctional facilities gain access to cutting-edge, secure, and sustainable lighting solutions that ensure long-term reliability, safety and future innovation.





# CIRCADIAN LIGHTING

## An evidence based design approach

Evidence-based design is a philosophy that began in healthcare and has extended to other uses. The evidence-based design approach uses the latest scientific research to guide the design process with the goal of improving outcomes for people. This opposes a standards-based approach, which can be years or decades behind. We need to ask ourselves, do we want to be industry-leading? Or following?

The scientific evidence is now overwhelming that circadian disruption leads to short-term cognitive issues and increases the risk of long-term chronic disease. Circadian disruption is proven to affect up to 90% of the population due to the indoor lifestyle we lead in the modern age. Therefore, our lighting environments play a part in this disruption, especially in correction facilities, where inmates and staff spend most of their time indoors.

Circadian lighting design recommendations now exist to combat this problem, through consultation and education we can lead the design and construction industry through this necessary change.



# SUSTAINABILITY

The most sustainable product  
is the one you don't use

Sustainability starts with considered use of technical luminaires to minimise the number of products required. Products should be selected which are designed to last a 10 - if not 20-year – design life and supported by a 5-10 year warranty. This should be the accepted practice for lighting.

Maximising the energy efficiency of the lighting solution and lighting control will reduce energy waste and, therefore, energy bills. Following the initial design life, consideration must be given to how the product can be reused or easily recycled at the end of its life.

Sustainability also extends beyond environmental, to social and economic sustainability for New Zealand. Considering the foundation of New Zealand society, your decisions in the design process can, intentionally or accidentally, influence the capability and economic sustainability of New Zealand Inc.





# ANTI LIGATURE

## Upholding duty of care in high-risk environments

An anti-ligature light fitting is a specially designed lighting fixture that eliminates points where a ligature (such as a cord, rope, or fabric) could be attached. These fittings are used in high-risk environments like correctional facilities, mental health institutions, and secure hospitals to prevent self-harm and suicide attempts.

Key features of anti-ligature light fittings include:

- Smooth, sloped, or recessed designs to prevent anything from being tied or secured to the fixture.

- Tamper-resistant construction to prevent dismantling or weaponisation.
- Durability to withstand impact, vandalism, and harsh conditions.
- Secure installation with minimal gaps between the fixture and the mounting surface to prevent tampering.

These fittings provide safe, reliable lighting while prioritising the well-being of individuals in high-security or at-risk settings. In correctional facilities, anti-ligature lighting is essential for a secure environment.





# IMPACT RATING

## The importance for correctional facilities

IK11 is currently the highest impact resistance rating for light fittings, however IK testing alone, to the standards, is not adequate for correction facilities. Energylight understand this and partner with specialist custodial lighting manufacturers with impact ratings which exceed the standard IK10 (20 joules of force), including up to IK11+ (150 J). This ensures maximum durability against vandalism, tampering, and physical abuse.

In correctional facilities, IK10++ or above lighting is crucial for:

- Preventing Damage & Reducing Maintenance – Withstands heavy impacts, lowering repair costs.
- Enhancing Safety & Security – Maintains consistent lighting, preventing dark spots.
- Minimising Weaponisation Risks – Tamper-proof design prevents broken parts from being used as weapons.
- Ensuring Long-Term Reliability – Built to last in high-risk environments.





# CONTROLS

## Creating flexible environments

Lighting controls are essential for creating versatile and useful environments. Advanced systems like DALI and Casambi enable precise control over luminaires, allowing for seamless adjustments in brightness, colour temperature, and lighting scenes.

- Security & Safety – Automated dimming, instant overrides, and zoned control improve visibility and response in critical areas.
- Energy Efficiency – Motion sensors and dimmable LEDs reduce energy waste and extend fixture lifespan.
- Well-being & Rehabilitation – Circadian lighting supports sleep cycles, while adaptive lighting creates a controlled, humane environment.
- Tamper-Proof & Centralised Control – Secure access prevents misuse, with remote monitoring for efficiency.

Smart lighting controls ensure safer, cost-effective, and more sustainable correctional facilities.

# NAVIGATING LIGHTING IN THE CORRECTION FACILITY

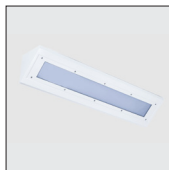




## CELLS AND BATHROOMS

Lighting in cells and bathrooms must balance security with inmate well-being. Anti-ligature, IK10+ rated fixtures ensure durability and prevent self-harm risks, while IP65+ ratings protect against moisture. Light levels must comply with NZ standards for visibility and safety, preventing dark spots that could hinder surveillance. Carefully designed fittings minimize glare and flare, ensuring clear CCTV footage for monitoring. A long lifespan and easy maintenance reduce disruptions, maintaining a well-lit, secure environment.

Circadian Lighting in cells can contribute to the long term health and wellbeing of the inmates.



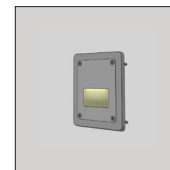
Cornice



Shield Surface



Shield Recessed



Salvalux  
Reading Light



Salvalux



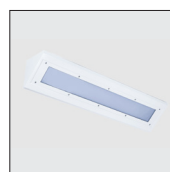


## SECURE CIRCULATION

Hallways and corridors must support constant surveillance and safe movement. High IP-rated, impact-resistant lighting ensures uninterrupted operation, even in high-traffic areas. Uniform light distribution prevents shadows where illicit activity could be hidden, while low-glare designs allow CCTV cameras to capture clear images without distortion. .



Arcadian  
Bulkhead



Cornice



Shield Surface



Shield Recessed



Salvalux

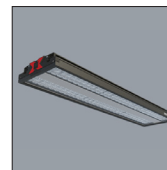




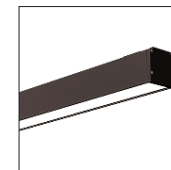
## GYM

The gym is a privileged space for inmates, reinforcing good behavior and discipline. As a result, there is an opportunity for a less restrictive environment, but security remains essential. IP65-rated, impact-resistant lighting ensures durability, while even, bright illumination supports clear visibility for both staff and CCTV surveillance. Low-glare fixtures prevent obstruction in monitoring, maintaining a safe and controlled atmosphere. With long-lasting, low-maintenance LEDs, the facility remains operational and well-lit without frequent disruptions.

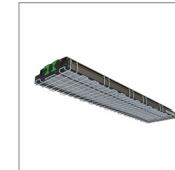
High Security



EAE  
Revolved-X

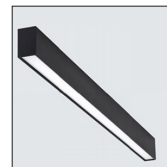


energyline  
*Robust*

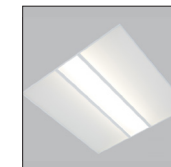


EAE  
Revolved-X Sport

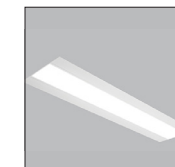
Low Security



energyline  
*Optimised*



Energylight  
VIFO



Energylight  
EVALA

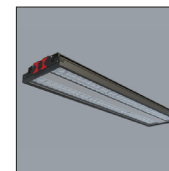




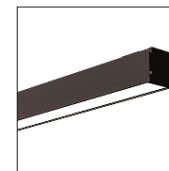
## EDUCATION

Classrooms require trigger-free, glare-free lighting to foster focus and rehabilitation. Flicker-free illumination reduces stressors that could impact learning, while well-distributed lighting prevents shadows and distractions. Bright yet comfortable levels ensure clear visibility for reading and writing, supporting engagement. Low-glare designs ensure CCTV cameras capture clear footage without distortion. Reliable, long-life LEDs keep learning uninterrupted and maintenance minimal.

High Security



EAE  
Revolved-X



energyline  
Robust

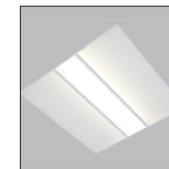


EAE  
HBL

Low Security



Energylight  
Viline



Energylight  
VIFO



Energylight  
EVALA

# HOSPITAL

Medical spaces require bright, clear lighting to support accurate treatment and observation. IP65-rated fixtures ensure hygiene and resist moisture, while flicker-free illumination minimises stress for patients. Emergency override controls allow staff to adjust lighting instantly, ensuring fast response times. Anti-ligature designs prevent self-harm risks in sensitive areas, while low-glare fixtures provide clear CCTV visibility without compromising patient comfort. Cyanosis Observation Index (COI) is available in Energylight fixtures.

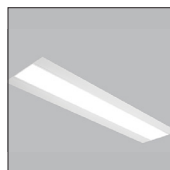
We have both high and low security products available to cater to this space.



## Low Security



Zera Bed



Energylight  
EVALA

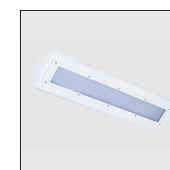


energyline  
*Optimised*

## High Security



Energylight  
Salvalux



Cornice



Shield Surface



## MENTAL HEALTH UNIT

Lighting in mental health units must promote calm and safety while enabling effective monitoring. Soft, uniform illumination minimises stress triggers, while anti-ligature and IK10+ rated fittings prevent tampering and vandalism. IP65-rated fixtures ensure reliability in high-risk areas, reducing maintenance interruptions. Thoughtfully placed lighting prevents shadows and blind spots, aiding security teams in observation while maintaining a therapeutic environment for inmates.

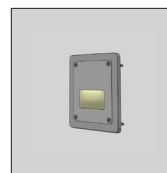
Circadian Lighting can also contribute to the long term health and wellbeing of the inmates using the mental health unit.



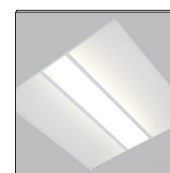
Energylight  
Salvalux



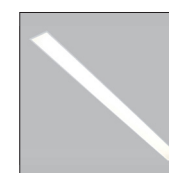
Energylight  
Salvalux Small



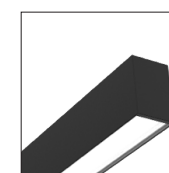
Salvalux  
Reading Light



Energylight  
VIFO



Energylight  
Viline



Energyline  
Linear

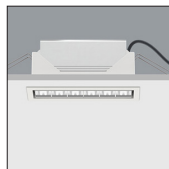
### Options for Circadian Lighting for Patient and Staff Wellness



## LOBBY / RECEPTION

As the first point of contact, the lobby requires bright, inviting, and secure lighting. Glare-free, IP-rated fixtures support clear visibility for CCTV cameras, ensuring accurate identification. Well-distributed illumination prevents security blind spots and enhances staff observation. Low-maintenance solutions provide long-lasting performance, keeping operations uninterrupted and efficient.

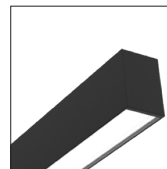
Creating a safe space for visitors should be considered to minimise distressing experiences.



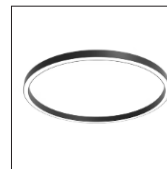
ERCO  
Compar



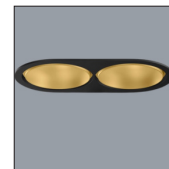
ERCO  
Parscan



Energyline  
Systems



Energyline  
Curvilinear



XAL  
Sasso





## STAFF AREAS

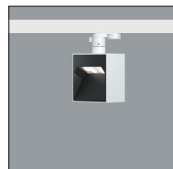
Staff rooms require comfortable yet secure lighting to support focus and well-being. Bright, evenly distributed light prevents fatigue, while low-glare solutions create the best atmosphere for downtime. Long-life fittings reduce maintenance needs, keeping security personnel focused on operations and impacting the buildings long term sustainability.



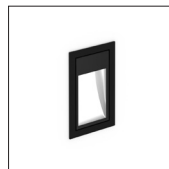
Exenia  
Spot Revo



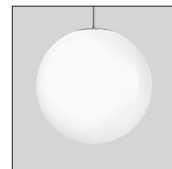
ERCO  
Parscan



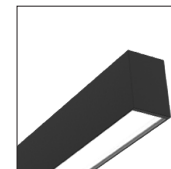
ERCO  
Pantrac



XAL  
Unico



RZB  
Basic Ball Glass



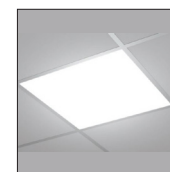
Energyline  
Systems



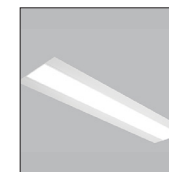


## KITCHEN AND LAUNDRY

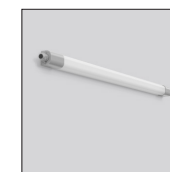
Kitchen lighting must meet strict hygiene and safety standards, with IP66-rated, easy-to-clean fittings resistant to grease, steam, and heat. HACCP approved light fittings for food safety are also available. Bright, flicker-free lighting ensures visibility for food prep and security, while anti-glare designs prevent discomfort for staff. Reliable, long-lasting LEDs minimise disruptions, maintaining smooth operations within the facilities.



RZB Parledo  
HACCP Approved



Energylight  
EVALA



RZB  
Planox Eco





## AREA AND CAR PARK

Exterior lighting is critical for perimeter security, surveillance, and safe movement. High-output, IP66-rated floodlights ensure clear visibility in all weather conditions. Optimised placement, cut off shields and anti-glare optics prevent flare in CCTV cameras, capturing clear images for security teams. Motion-sensor technology improves energy efficiency while ensuring consistent illumination for patrols. Durable, long-lasting fixtures reduce maintenance, keeping the facility secure 24/7.



CUPhosco  
P862



CUPhosco  
P863



RZB  
Lightstream







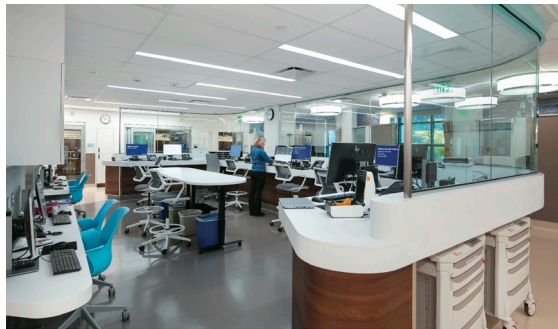


## OUR BROCHURES



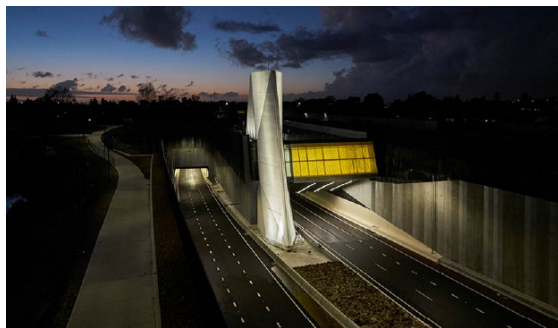
LARGE AREA & INDUSTRY  
WELLBEING THROUGH LIGHT

energylight  
knowledge | solutions



HEALTH & CARE  
WELLBEING THROUGH LIGHT

energylight  
knowledge | solutions



PUBLIC & LANDSCAPE  
WELLBEING THROUGH LIGHT

energylight  
knowledge | solutions

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Derek Colley  
Lighting Specialist  
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Photo: Hillmorton Mental Health Facility  
Christchurch, New Zealand  
Featuring locally designed and manufactured anti-  
ligature fittings, NZ made troffers and linear systems,



Rev 1 – February 2025

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knowledge | solutions