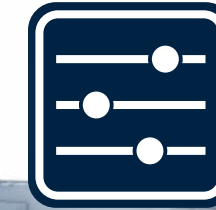


THORN

LIGHTING



FOOTBRIDGES +

HERITAGE BUILDINGS -

BUILDING FACADES +

PUBLIC WALKWAYS +

BUILDING SURROUNDS +

PARKS & PLAZAS +



BUILDING SURROUNDS

CREATING WARM ENVIRONMENTS

ENHANCING THE PERCEPTION OF SAFETY – Exceptional architectural lighting augments safety perceptions by illuminating urban spaces effectively. Well-lit areas create a sense of security, reduce shadows, and deter potential threats, developing confidence among residents and visitors. This heightened perception of safety encourages greater engagement with public spaces, promoting a more vibrant and secure urban environment.

PROTECTING DARK SKIES – Community lighting should employ responsible design, like specifying warmer colour temperatures, downward luminaire mounting and responsibly controlling and grouping light points, thus reducing light pollution and protecting the night sky. Such measures also safeguard nocturnal biodiversity by preserving natural behaviours and habitats, developing a harmonious coexistence between urban life and the ecosystem. At Thorn lighting we have been strong partners with Dark Sky International since 2021 and we have nearly twenty Dark Sky approved luminaires.



AXYL GEO



CESAR STROLL BOLLARD



AXYL GREET BOLLARD



CESAR STRUT



AXYL GILD



AXYL GLOW



AXYL GREET WALL



CESAR OPERA



BUILDING FACADES

CREATING A CITIES IDENTITY

- 1 LIGHTING AND THE PERCEIVED VALUE OF A SPACE**
– Illuminating a building facade injects life into the structure, making it a key focal point in the urban landscape. This captivating visual element draws attention, sets the ambiance, and communicates sophistication or cultural significance. It fosters a stronger connection between people and the area.

Achieving this effect while minimising light pollution requires precision in fixture selection and placement. Shielded, downward-facing fixtures and well-crafted lighting schemes spotlight architectural beauty without causing unnecessary upward glare. This responsible

approach not only elevates the building's significance but also preserves the integrity of the night sky and nocturnal environment, ensuring a sustainable and captivating balance.

- 2 RESPONSIBLE LIGHT CONTROL** – Connecting building facade lighting to a DALI-2 control system enhances sustainability by enabling precise, real-time adjustments in response to environmental conditions and occupancy. This dynamic control reduces energy consumption and light pollution by dimming or turning off lights when unnecessary, thus conserving resources and promoting responsible urban lighting practices.



AXYL ETCH



EROA SX



CAELON S



AXYL OPERA

THORN

LIGHTING



HERITAGE BUILDINGS

GETTING THE BALANCE RIGHT

- 1 ACCENT LIGHTING** – Highlight architectural focal points with narrow beam distribution, reducing energy consumption and adding depth to facades by creating shadows around features.
- 2 GRAZING** – Mounting luminaires close to the facade, emitting light against it, enhances texture, patterns, and depth perception. It complements accent lighting, frames scenes, and provides visual relief.
- 3 INTEGRATION** – Ensure safe navigation with luminaires like bollards and wall mounts, emphasizing downward light for Dark Sky compliance. Recessed luminaires with asymmetrical light distribution and linear options support depth perception and detail without glare.
- 4 BUILDING MATERIALS** – Consider material properties for floodlighting, maintain proper luminaire-to-surface distance, and use glare reduction accessories while avoiding unnecessary reflected light pollution.



CESAR STROLL



CESAR STRUT



AXYL STRIDE



AXYL TRIM



CESAR STRIDE



CAELON S



CESAR OPERA



CESAR JAZZ

HERITAGE BUILDINGS



THORN

LIGHTING



PARKS & PLAZAS

MINDFUL, BALANCED ILLUMINATION

- 1 LIGHT FOR GREEN SPACES** – Well-designed lighting in green spaces elicits positive emotions, providing security, comfort, and developing community bonds. It showcases natural beauty, creating a serene ambiance for improved well-being.
- 2 SUPPORTING NIGHTTIME ECONOMY** – Responsible lighting bolsters the night economy, enabling businesses like cafes and restaurants to extend hours and attract more patrons. This enhances economic growth and urban vitality in green spaces.
- 3 AVOIDING EXCESSIVE LIGHT SPILL** – Achieving responsible lighting requires reducing light spill and pollution. Employing shielded fixtures, directional lighting, and dimming controls directs light precisely, preventing unnecessary illumination, and protecting the nighttime environment.
- 4 OUR UNIQUE LIGHTING TECHNOLOGIES** – Our NightTune and Variable Light Distribution (VLD) technology ensures comfort and happiness in built spaces while safeguarding the night sky and wildlife safety.



CAELON R



AXYL STRIDE



URBA DECO



URBA BOLLARD



CARAT



MYSTRID FLEX

THORN

LIGHTING

FOOTBRIDGES



FOOTBRIDGES

ASSISTING CITY COMMUTES / PROTECTING THE NIGHT SKY & BIODIVERSITY

- 1 AVOID THE SPILL** – To mitigate light spill, mount luminaires higher with downward-oriented light or use glare control accessories like cowls. Addressing light pollution near water areas, such as bridges, is crucial. Preventing light spill onto the water surface is as vital as controlling skyward light. Dark Sky techniques are essential to safeguard aquatic ecosystems from artificial lighting's adverse effects.
- 2 COMMISSIONING EXCELLENCE** – On-site commissioning guarantees precise luminaire placement, but for higher-mounted luminaires, glare avoidance is crucial. Luminaire accessories and commissioning are vital to prevent discomfort. Wall-mounted luminaires should typically use single downward emission.



MYSTRID FLEX



AXYL GEO



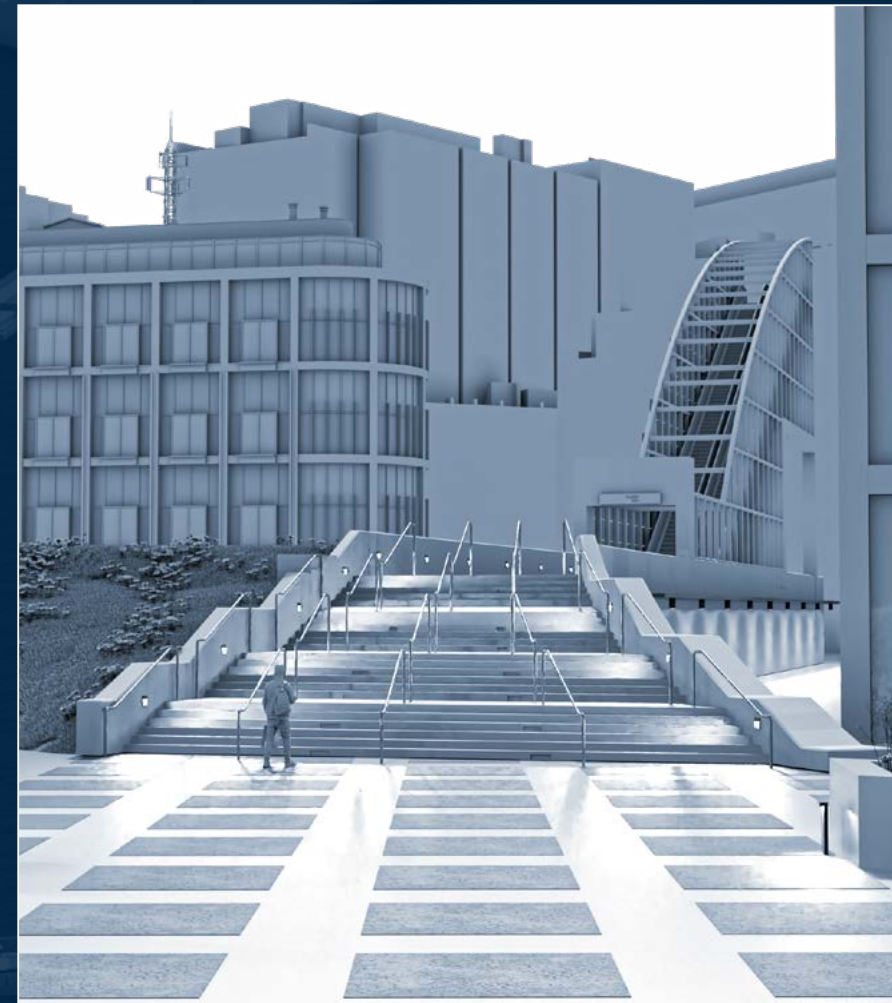
RAZE BOLLARD



AXYL TRIM

THORN

LIGHTING



PUBLIC WALKWAYS

CREATING SAFER SPACES

- 1 COMFORTABLE NAVIGATION** – Exceptional urban lighting serves as a crucial ally in addressing accessibility challenges, enhancing human safety, and mitigating social isolation.
- 2 ENHANCING SOCIAL COHESION** – Adequate urban lighting enhances safety, encouraging community interaction and reducing feelings of isolation. It promotes social cohesion, strengthening urban bonds and creating vibrant, connected communities. By creating inviting, well-lit environments, lighting contributes to a sense of belonging and collective well-being.
- 3 IMPROVING SPACES** – Illuminating under-canopy spaces strategically by lighting the ceilings transforms the perception of space. Casting light upwards enhances verticality, visually expanding the area. The illuminated ceiling reflects light evenly, eliminating shadows, adding aesthetics, and creating a welcoming atmosphere. Such lighting works well in commercial settings, increasing foot traffic and customer engagement by making under canopy spaces feel spacious and inviting.



AXYL GREET



AXYL GREET BOLLARD



CESAR AMP



CESAR STRIDE

PUBLIC WALKWAYS

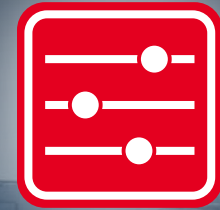




EMERGENCY LIGHTING

SAFETY PRIORITISED FROM INSIDE TO OUT

Central battery systems play a pivotal role in ensuring the safety and reliability of emergency lighting, particularly for building surrounds. In critical situations such as power outages, fires, or natural disasters, these central battery systems provide a lifeline, guiding people to safety. They illuminate escape routes and essential areas, reducing panic during high-stress scenarios. Our range of building surround lighting solutions is specifically designed to work seamlessly with central battery systems, preventing accidents during evacuation and aiding first responders. Complying with safety regulations is paramount, as non-compliance can have dire consequences. In essence, central battery systems are a cornerstone of building safety, offering peace of mind and protection during times of distress.






















LIGHTING CONTROL SOLUTIONS

SUSTAINABLE LIGHTING CONNECTIVITY

DALI-2 – DALI-2 (Digital Addressable Lighting Interface) seamlessly integrates indoor and outdoor lighting systems, boosting energy efficiency, security, and convenience. Centralised control of outdoor lights via the indoor system optimises schedules and conditions. Additionally, controlling RGBW luminaires for minor light color adjustments enhances the user experience and reduces energy costs. This integration elevates lighting performance while lowering overall costs.

DMX – A DMX (Digital Multiplex) control system offers numerous benefits in the realm of lighting and special effects. Its precision allows for intricate and dynamic control of lighting fixtures, making it ideal for theaters, concerts, and events. DMX systems facilitate synchronisation and customisation, enabling captivating light shows. They're also cost-effective, as a single controller can manage multiple devices, reducing complexity and saving energy. DMX control enhances creativity and efficiency in creating immersive and visually stunning lighting experiences.

DALI-2			
	Cesar Strut		Axyl Greet
	Cesar Stroll		Axyl Glow
	Cesar Stride		Axyl Gild
	Cesar Opera		Axyl Geo
	Cesar Jazz		Axyl Etch
	Cesar Amp		Axyl Stride
	Axyl Opera		Axyl Trim
DMX			
	Eroa		Mystrid Flex
	Caelon R		Ora RC
	Caelon S		



SUSTAINABLE CITIES

Sustainable urban lighting harmonises ecological responsibility and liveability, driven by energy-efficient LED technologies that reduce power consumption, cut carbon emissions, and lower energy costs.

These savings can fund community projects while lessening environmental impact. Prioritising safety and comfort, sustainable lighting illuminates public areas without glare, fostering community engagement. It crucially safeguards dark skies and nocturnal biodiversity through shielded fixtures and reduced light pollution.

By striking a balance between human needs and environmental stewardship, sustainable urban lighting achieves harmony in urban spaces.



SUSTAINABLE DEVELOPMENT GOALS



INDUSTRY, INNOVATION & INFRASTRUCTURE
Sustainable urban lighting with energy-efficient technology aligns with Sustainable Development Goal (SDG) 9 and reduces the carbon footprint of urban areas. It enhances safety, reduces energy consumption, minimises light pollution, and supports inclusive urban development, preserving biodiversity and dark skies.



SUSTAINABLE CITIES & COMMUNITIES
Supporting a community's nighttime economy, prioritising energy efficiency, safety, and dark sky protection, is a vital challenge. Efficient lighting supports resilient, inclusive cities, reducing energy use, enhancing safety and preserving natural nightscapes, aligning with the vision of sustainable urban living.



CLIMATE ACTION
Effective urban lighting should balance our need to reduce energy use and carbon emissions whilst supporting urban safety and preserving nocturnal environments. Global protocols like DALI-2 simplify lighting control and make it easier for projects to align with SDG 13's climate change goals.

[CLICK HERE TO READ MORE ABOUT OUR SUSTAINABILITY COMMITMENTS](#)