



Advanced
LIGHTING TECHNOLOGIES

A BRIGHT VISION

CASE STUDY

**NUNAWADING
COMMUNITY HUB**





Whitehorse City Council

“The Hub will be the new vibrant heart of Nunawading; a place where everyone will feel welcome and can come together to embrace new opportunities for socialising, learning and getting active”

NUNAWADING COMMUNITY HUB

A NEW HEART FOR NUNAWADING

Whitehorse City Council had a vision to create a new vibrant hub for its community. A place where everyone feels welcome, promoting interaction, learning and activity. The Nunawading Community Hub serves as exactly that, bringing community groups, sporting teams, artists and students from all ages and backgrounds together under one roof. **Advanced Lighting Technologies** supplied much of the exterior lighting at the hub from our architectural range, which features luminaires from Italian manufacturer **Arcluce**.

THE FACILITY

Located in Melbourne’s eastern suburbs, the Nunawading Community Hub sits on the site of a former primary school on busy Springvale Road. The Hub offers a variety of multi-purpose spaces, including an indoor sports stadium, multiple dance/activity areas, art rooms, meeting rooms and a communal kitchen. The exterior was integrated with neighbouring Tunstall Park, and features green spaces, walking paths and parking for approximately 200 cars. The Hub hosts a range of community organisations including sporting clubs, education, arts and charitable groups.

The original heritage school building was refurbished to ensure the site’s history is retained, while many sustainable building techniques and materials were used during construction. The facility is expected to be the first 5 Star Green Star building in the City of Whitehorse.



REQUIREMENTS & CHALLENGES

Advanced Lighting Technologies were engaged by electrical consultants WSP to design and supply a lighting solution that complemented the architectural styling of the building and its surrounds.

Poles no higher than 4m were specified, and the applicable car park and pedestrian areas needed to comply with the following light technical parameters, as recommended in AS/NZS 1158.3.1:

- **AS/NZS 1158.3.1 Cat P11(b)** – Parking spaces, aisles and circulation roadways - medium vehicle/ pedestrian movements.
- **AS/NZS 1158.3.1 Cat P12** – Designated parking spaces specifically intended for people with disabilities.
- **AS/NZS 1158.3.1 Cat P9** – Steps and stairways, ramps, footbridges, pedestrian ways.

And overall, the glare control requirements had to comply with the recommendations of:

- **AS/NZS 1158.3.1: 2005** – Table 2.10 for Type 6 classification.





THE SOLUTION

Advanced Lighting Technologies has been providing lighting solutions to organisations around Australia for decades, not just during the recent rise of LED technology. We're proud to offer luminaires from some of the world's leading lighting manufacturers, including our range of urban and architectural fittings from Italian company Arcluce.

Carefully chosen to meet the most demanding requirements of lighting designers, architects and end users, Arcluce's products feature high-quality design and craftsmanship, backed by a 5-year guarantee.

LUNIO7

 Arcluce

Featuring beautiful European design, The Arcluce Lunio7 LED Street & Area Light takes its name from its distinct appearance. Part of the Lunio family, the Lunio7 is perfect for outdoor applications including car parks, shopping centres, parks, pathways and other urban applications.

The Lunio7 offers full cut-off optics and can be supplied with DALI dimming controls, NEMA or Zhaga connections (optional) and features a double layer of protective paint resistant to corrosion and UV rays.

FEATURES

- 5 YEAR WARRANTY
- FULL CUT OFF
- IP66
- IK08
- 3000K & 4000K CCT
- MULTIPLE WATTAGES
- DIE-CAST ALUMINIUM BODY

OPTIONS

- FUTURE PROOF
- 2200K AVAILABLE UPON SPECIAL REQUEST

16 21 12



LOW-PROFILE DESIGN
BEAUTIFUL EUROPEAN STYLING
HIGH COLOUR CONSISTENCY

Visit adlt.com.au for additional technical information.

KLOU IK



The Arcluce Klou IK LED Bollard was conceived to offer incredible impact resistance without sacrificing the look and feel of an architectural fitting.

The Klou IK's impact resistance rating protects the sensitive optics inside while its clean and geometrical design allows it to integrate seamlessly into any urban environment.

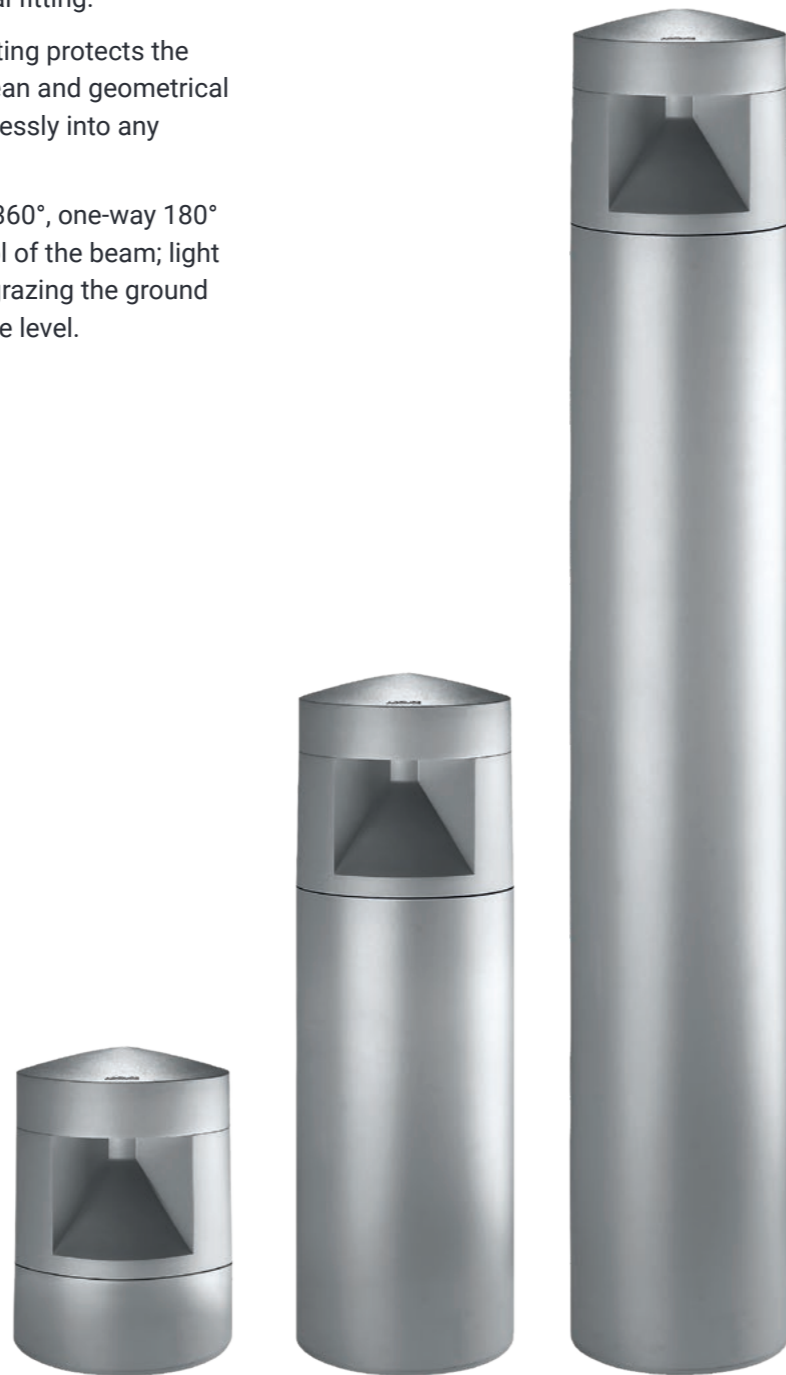
A range of different optics (radial 360°, one-way 180° or two-way) provide perfect control of the beam; light slides smoothly from the source, grazing the ground and avoiding any glare effect at eye level.

- 5 YEAR WARRANTY
- FULL CUT OFF
- IP66
- IK10
- 3000K & 4000K CCT
- MULTIPLE WATTAGES
- DIE-CAST ALUMINIUM BODY

OPTIONS

- SENSORS
- POWER SUPPLY
- DECORATIVE LED

16 21



ROBUST DESIGN
HIGH IMPACT RESISTANCE
BEAUTIFUL EUROPEAN STYLING

Visit adlt.com.au for additional technical information.

Advanced Lighting Technologies' Victorian Sales Manager, Peter Rees worked on the project and commended Arcluce's product offering:

"Arcluce's mix of architectural styling and performance provided a fantastic solution for the Nunawading Community Hub. We were pleased to supply fittings that not only met the required design brief for light and glare levels, but also looked great during both night and day."

Advanced Lighting Technologies also supplied interior lighting products from Cree Lighting & PRACHT, used in storage areas and corridors (not pictured).

THE RESULT

Whitehorse City Council have created a wonderful community space that is both functional and visually appealing. The modern, sharp lines of the new construction contrast with the heritage charm of the original school building, while the outdoor areas offer a mix of natural and usable space.

Traditionally, engineers focus on achieving the requisite standards for illumination and glare at an economic price point, without much thought given to how the luminaires look during daylight hours.

Not so at The Hub - when entering the car park, your eye is immediately drawn to the Arcluce Lunio7 and its unique low-profile shape. Each Lunio7 is elegantly perched on the top of a tapered 4 metre pole. The Lunio7, supplied in 64W configuration with Type 5 optics, offers uniform illumination across approximately 200 car parks and roadways, while comfortably providing increased light levels for car parking areas reserved for those with disabilities.

The Arcluce Klou IK really is the perfect bollard for the urban environment - combining a level of robustness that can withstand significant impact (including vandalism) with a soft, radial stream of light to help guide the way. A continuous row of Klou IKs installed next to the main entrance create a beautiful lighting effect, further illustrating the Whitehorse City Council's commitment to build a functional and useable building which is also easy on the eye.

Combining the Arcluce Lunio7 & Klou IK provided a winning formula at Nunawading, achieving the required light levels and glare control as recommended by the Australian Standard. As a bonus, both luminaires offer full cut-off optics, meaning they generate no direct upwards light pollution at all. The fittings were also supplied with DALI dimming, offering flexibility to reduce light levels during times of low use.

The finished result captured in the design characteristics of the building combine to help bring Whitehorse City Council's vision to life:

“All the individual elements, including the lighting, help to generate the welcoming, safe and collaborative environment we were aiming to achieve. We hope the community will continue to enjoy the Nunawading Community Hub for many years to come”





Advanced Lighting Technologies are specialists in architectural, commercial and industrial lighting. **Whatever the application, whatever the budget - we'll have a solution that fits your needs.**



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