



Bogong Car Park Extension

In order to address car parking demand around one of Melbourne's busiest retail and entertainment areas, Monash Council recently redeveloped Bogong Car Park in the heart of Glen Waverley.

The \$40m+ extension added four additional levels of car parking, providing more than five hundred new spaces, taking total capacity to over one thousand.

In addition to the extra parking spots, the redevelopment also included a new building facade featuring public art, upgraded lifts, electric vehicle charging bays, a parking assistance system, new wayfinding signage and photovoltaic solar panels to help power the building.

Advanced Lighting Technologies supplied a range of lighting solutions as part of the redevelopment, including the **Cree Lighting Dot Series** throughout all levels of the undercover car park, the **Cree Lighting XSP Street & Area Light** and **ADLT DuraRail LED Batten** on the rooftop and the **Cree Lighting CPY Series Canopy Light** for the transition zone on the ground floor.

Our solution was designed to achieve compliance with the light technical parameters listed in the relevant Australian Standards for car park lighting, including:

- AS/NZS 1680.2.1:2008 Interior and workplace lighting, Part 2.1: Specific applications - Circulation spaces and other general areas - Car Parks (Indoors).
- AS/NZS 1158.3.1:2020 Lighting for roads and public spaces, Part 3.1: Pedestrian area (Category P) lighting - Performance and design requirements - Cat PC (1) for Outdoor Car Parks.

These Standards specify parameters like minimum illuminance, uniformity ratio and glare limits required in car parks to provide a safe and visually comfortable environment, ensuring Bogong Car Park users feel safe walking to and from their vehicles, and that pedestrians are visible to drivers at all times.

The rooftop car park was also designed to achieve compliance with the recommendations for obtrusive light listed in AS/NZS 4282:2019 Control of the obtrusive effects of outdoor lighting (A3 - Medium District Brightness, Curfew).

END USER

Local residents and visitors

LOCATION

Glen Waverley, VIC

CHALLENGES

- Achieve compliance with Australian Standards
- Minimise spill light and glare

SOLUTIONS

- Cree Lighting Dot Series
- Cree Lighting XSP Series
- Cree Lighting CPY Series
- ADLT DuraRail LED

RESULTS

- Enhanced visibility, safety and security throughout all levels
- Reduced spill light thanks to optional backlight shields on rooftop



NOW **IK10** FOR MAXIMUM IMPACT RESISTANCE

Now engineered for even greater durability! The **Cree Lighting Dot Series** was recently upgraded from IK09 to IK10.



CREE ⚡ LIGHTING

Dot Series

The **Dot Series from Cree Lighting** is a compact and flexible lighting solution suitable for endless applications, including both retrofit and new construction. The range features optics and mounting options designed for petrol canopy and soffit lighting (Dot Fuel) and for flood, security and general area lighting (Dot Multi).

Available in up to four lumen packages with a complete range of optics, the Dot Series features die-cast aluminium with low copper content and offers excellent thermal performance to maximise reliability. Dot was created as a minimalist, no-excess lighting solution that fully meets the requirements of those specifying it, installing it or passing under it.

A wide range of mounting options, trims and colour temperatures combined with robust design and outstanding efficacy (up to 160 lm/w*) completes the package.

☀ LUMENS	4,000L - 24,000L
⚡ WATTAGE	29W - 159W
🌡 CCT	2200K 2700K 3000K 4000K 5700K
📊 CRI	70 CRI 80 CRI
👁 OPTICS	WIDE RANGE
🔧 RATINGS	IP66 IK10
🔌 OPTIONS	SENSOR DALI ZHAGA
🌡 TOLERANCE	-40°C UP TO +50°C
🛡 WARRANTY	5 YEARS (*EXTENDED AVAILABLE)
★ HIGHLIGHT	HIGHLY FLEXIBLE
🎨 COLOURS	WHITE
All lumen and wattage figures nominal.	





CREE  LIGHTING

XSP Series

The Cree Lighting XSP Street & Area Light delivers uniform illumination exactly where it's needed thanks to its integrated NanoOptic technology. Providing incredible efficiency without sacrificing application performance, the XSP Series is perfect for both retrofit and new construction. A standard 10-year warranty offers peace of mind. Some of the luminaires supplied at the Bogong Car Park Extension also featured optional backlight shields to further reduce obtrusive light.

 LUMENS	4,000L - 17,000L
 WATTAGE	37W - 128W
 CCT	3000K 4000K 5700K
 CRI	70 CRI
 OPTICS	WIDE RANGE
 RATINGS	IP66 IK08
 OPTIONS	DALI ZHAGA NEMA + MORE
 TOLERANCE	-40°C UP TO +50°C
 WARRANTY	10 YEARS
 HIGHLIGHT	AEMO APPROVED*
 COLOURS	BLACK SILVER

All lumen and wattage figures nominal. Only certain variants AEMO approved.





CREE ⚡ LIGHTING

CPY Series

Offering up to 21,000 lumens of high-quality light, the **Cree Lighting CPY Canopy Light** delivers an exceptional balance of performance, efficiency and reliability. With rugged cast aluminium construction and an integral heat sink, the CPY Series can withstand the most challenging outdoor environments.

Available with a flat or prismatic drop lens, the luminaire provides two aesthetics to meet visual and illumination performance needs. The slim, low-profile design enhances curb appeal, while offering seamless installation.

☀ LUMENS	2,000L - 21,000L
⚡ WATTAGE	35W - 65W
💡 CCT	3000K 4000K 5000K 5700K
📊 CRI	70 CRI 80 CRI 90 CRI*
👁 OPTICS	FLAT LENS DROP LENS
🔧 RATINGS	UP TO IP66
🔌 OPTIONS	0-10V DIMMING
🌡 TOLERANCE	-40°C UP TO +50°C*
🛡 WARRANTY	10 YEARS
★ HIGHLIGHT	FLEXIBLE MOUNTING OPTIONS
🎨 COLOURS	WHITE BLACK SILVER

All lumen and wattage figures nominal. Not all options available in all variants.



DuraRail LED

The **DuraRail LED batten** from **Advanced Lighting Technologies** is perfect for tough environments where durability and performance are key. Boasting an impact resistance rating of IK10, the DuraRail LED delivers up to 8,200 lumens at an economical and affordable price.

Built with durability and reliability in mind, the DuraRail LED was designed to withstand the rigours of tough applications like car parks, pedestrian walkways and other challenging areas of the urban environment.

Whether replacing outdated fluorescent battens or installing as new construction, the DuraRail LED is the perfect choice.



 LUMENS	4,400L - 8,200L
 WATTAGE	35W – 65W
 CCT	4000K
 CRI	>80 CRI
 OPTICS	120°
 RATINGS	IP66 IK10
 OPTIONS	SENSOR DALI EMERGENCY (MOQ)
 TOLERANCE	-20°C UP TO +50°C
 WARRANTY	5 YEARS
 HIGHLIGHT	IMPACT RESISTANT
 COLOURS	WHITE

All lumen and wattage figures nominal. MOQ may apply for non-standard variants.





Photo used with courtesy of City of Monash.

The Car Park Lighting Specialists

Anywhere vehicles and people are in close proximity to each other has the potential to be dangerous. Therefore, it's not surprising that car park lighting solutions should focus primarily on safety; users should feel comfortable walking to and from their vehicles, while pedestrians should be visible to drivers at all times.

Whether outdoors or undercover, a lighting solution that ensures adequate illumination across the entire area - while minimising dark spots and shadowing - is paramount. Following the lighting recommendations in the relevant Australian Standards can help to achieve this.

Advanced Lighting Technologies can supply an efficient and effective car park lighting solution that allows for safe movement of both motorists and pedestrians - our industry specialists have years of experience designing lighting solutions that comply with the technical parameters recommended by the following car park related Standards:

- AS/NZS 1158.3.1
- AS/NZS 2890.1 & AS 2890.2
- AS/NZS 1680.2.1

Visit adlt.com.au to see our full range of products.