



Continually improving  
your lighting experience

## Custom Design and Manufacture

**PORT COCHÈRE**  
CROWN PERTH





## CROWN PERTH BALLROOM

# If you can dream it, we can build it

**Aglo Systems designs and develops unique creations to your specification**

Our in-house creative design department consists of a dedicated team of Mechanical Engineers and Industrial Designers. They utilise Solidworks to create 3D designs and Keyshot to generate photo realistic renders to help you visualise your idea.

Our client's briefs can be varied such as a loose idea or sketch on the back of an envelope through to fully detailed architectural drawings. Our portfolio of work range from boutique projects to 5 star hotels and casinos.

We are dedicated to supplying a quality product on time and on budget. Our Custom Manufacturing team will work with you to select the most suitable materials and manufacturing methods to match your ideas with your budget.

The Aglo Systems custom manufacture scope of work is greater than just lighting projects. We can develop practically any architectural features you can think of, and have developed bespoke non-lighting items such as drawer handles, feature mirrors, decorative metal work, screening and seating. The breadth of what we can develop for you is only limited by imagination.

## CASE STUDY

### Grand Ballroom Flower Pendants Crown Perth

#### Scope

Aglo Systems has worked with Crown Melbourne for over 5 years and was commissioned to engineer and manufacture the Grand Ballroom Flower Pendants and several other custom built pieces for the new Crown Perth re-development. We worked in parallel with Bates Smart and Electrolight to deliver the project.

#### Constraints

The design solution needed to incorporate and address the following:

- A cost effective design
- 9 x 6m and 36 x 3m diameter chandeliers
- Polished mirror gold finish
- Meet specified light output
- RGBW LED and DMX colour control
- Work with the weight limitations of ceiling structure

#### Supplied concept

The initial concept drawings were supplied to Aglo Systems by Bates Smart as part of the brief.

#### Prototype design and development process

The Aglo Custom Manufacturing team developed the original Bates Smart concept into 3m and 6m wide versions. The team then faced several challenges along the way in trying to balance all the requirements of the brief and with fabricating such a large item.

A combination of stainless steel for strength and aluminium – which were vacuum plated in mirror gold finish – was used in the main structure to reduce weight load. As a further weight reducing method, rotomolded spheres rather than glass were used for the diffusers. After preparing shop drawings, a full size 6m prototype was constructed to test the assembly and operation.

The prototype allowed for extensive testing. Planning for installation was the next challenge to overcome as access to the fittings from above would be limited. For the stability of the design, the luminaire had to be assembled and tested at ground level before being lifted into position as a complete piece. With such a delicate structure, even cable reticulation posed difficulties with over 100 separate connections to be made during assembly.

When all the design challenges had been resolved, construction of the 45 units began. Once delivered, the Aglo team oversaw the assembly and installation onsite. Witnessing such large structures being hoisted 8m into the air to the ceiling was quite a spectacular view.

The resulting ballroom is very impressive and testament to all involved in the project.



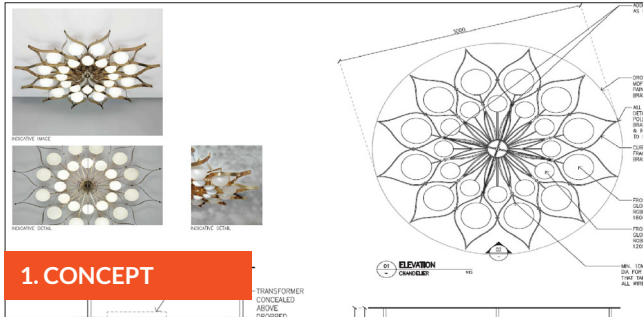
#### ONSITE ASSEMBLY



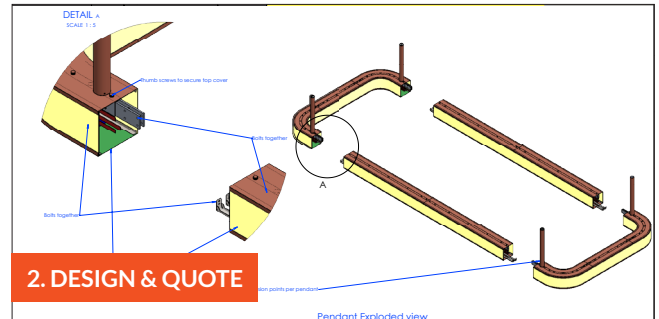
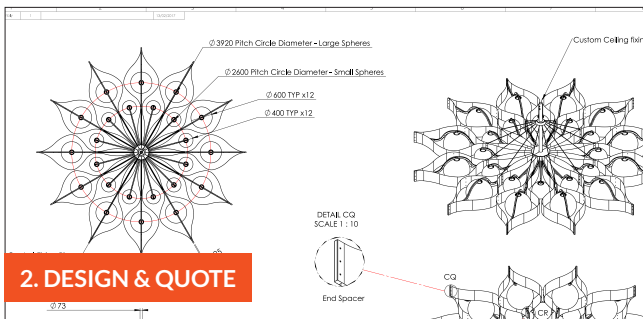
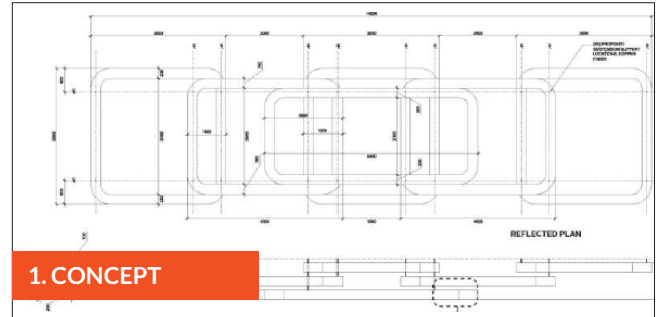
## Our 5 step process in action

We work closely with our clients every step of the design & manufacture process to ensure that we achieve desired outcomes; on time, to budget and specifications.

## Crown Perth - Grand Ballroom Flower Pendants



## Crown Perth - Porte Cochère Feature Lighting





# Aglo Systems provides commercial, retail, industrial and facility LED lighting solutions Australia wide.

Aglo Systems are specialists in lighting design and supply of LED highbays, spotlights, downlights and floodlights for retailers, warehouses, apartment complexes, educational facilities and healthcare facilities. We are an Australian owned company providing an extensive end-to-end Project Lighting Solution starting with design and consultation through to manufacture and supply.

Our Lighting Efficiency Upgrades department performs lighting audits and retrofit upgrades (leveraging government rebates) to reduce power consumption, lower maintenance costs and improve the overall lighting quality.

The Custom Design and Manufacture department works in partnership with architects, shopfitters, consultants & lighting designers to engineer and create unique luminaires and bespoke architectural features.

The Sports and Area Lighting department design and supply for all aspects of premium LED sports facility lighting and provide lighting solutions for areas such as loading docks, car parks, public parks and pathways.

With many years of experience, our dedicated team strives to provide a streamlined service with the finest attention to detail while maintaining competitive prices. By combining the latest technologies and highest quality components on the international market with inhouse assembly, Aglo Systems guarantees high end products and an extensive range.



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