

Key Luminaire Typologies

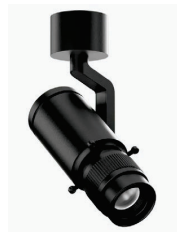
Luminaires are examples of proposed types to be tested in on-site mock-ups to optimise the final arrangement. Where fittings are visible colours of fittings will match mounting surface



Linear uplight



Linear downlight



Framing projector large

Triforia Level Luminaires



Spot light small



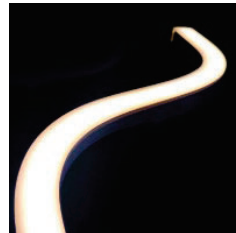
Spot light large



Framing projector small

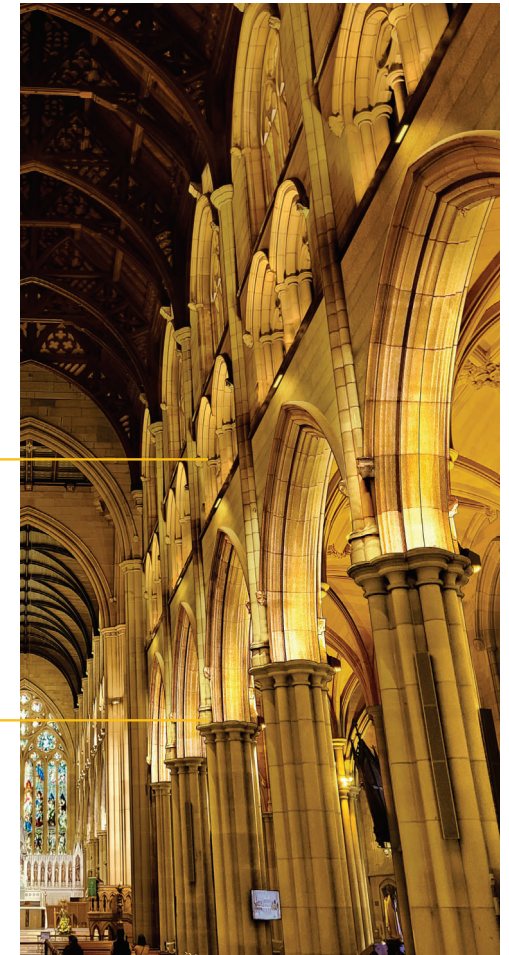


Direct/ Indirect luminaire



Flexible linear luminaire

Column Luminaires



Lighting Upgrade Works – Proposed Interior Lighting

Crypt

- Highlighting key sculptures, paintings and architectural features will emphasise their importance without intruding on the existing ambience
- A balanced approach to architectural lighting will help create a subtle focus on the important liturgical features within the crypt and maintain an atmosphere of quiet reflection and prayer
- Replacement of existing uplighting luminaires with new
- Track mounted lighting to be upgraded to more discrete fittings. Ceiling to be made good

New Amenities

- Simple and sympathetic approach that provides suitable functional illumination and supporting facial illumination at wash basins whilst highlighting the architecture where suitable

New glass lift

- Lighting within the lift car to be discreetly integrated into framing to provide required horizontal and vertical illuminance
- Linear lighting integrated into entry portal for illumination of the landing
- Architecturally considered lift shaft lighting to minimise the visual impact and only to be on for maintenance purposes – otherwise off

Proposed Exterior Lighting

Exterior - Existing Lighting



Existing Conditions

Exterior – Existing Lighting



Existing Conditions

Proposed Exterior Lighting Approach

Upgrade luminaires and optimise lighting arrangement

Existing façade lighting will be replaced with a consistent and coherent LED lighting strategy:

- Express the architectural character and identity of the building's façade
- Enhance the cathedrals presence from key vantage points at night
- Enhance building entry points supporting wayfinding and orientation
- Supporting safe passage and orientation
- Improving colour quality and light quality at night
- Be coherent and consistent in application
- Lighting enhancements with new luminaires in discreet locations to accent key sculptures, façade elements and the building footprint
- Light sculptures currently unlit supporting the night time identity and viewing of the building
- Existing cable routes will be re-used where possible and new cable routes will reticulate to existing routes to minimise trenching and other ground works
- New dimmable lighting control technology to allow balancing of the scheme, scene setting and variable scenes throughout the evening, reducing lighting and lighting intensity in the late evening

Proposed Exterior Lighting Approach

The proposed lighting scheme consists of the following key lighting elements. The works describe the intended final outcome, and may be staged to suit priority works, available budgets, installation considerations and feasible implementation timeframes.

Key Lighting Elements

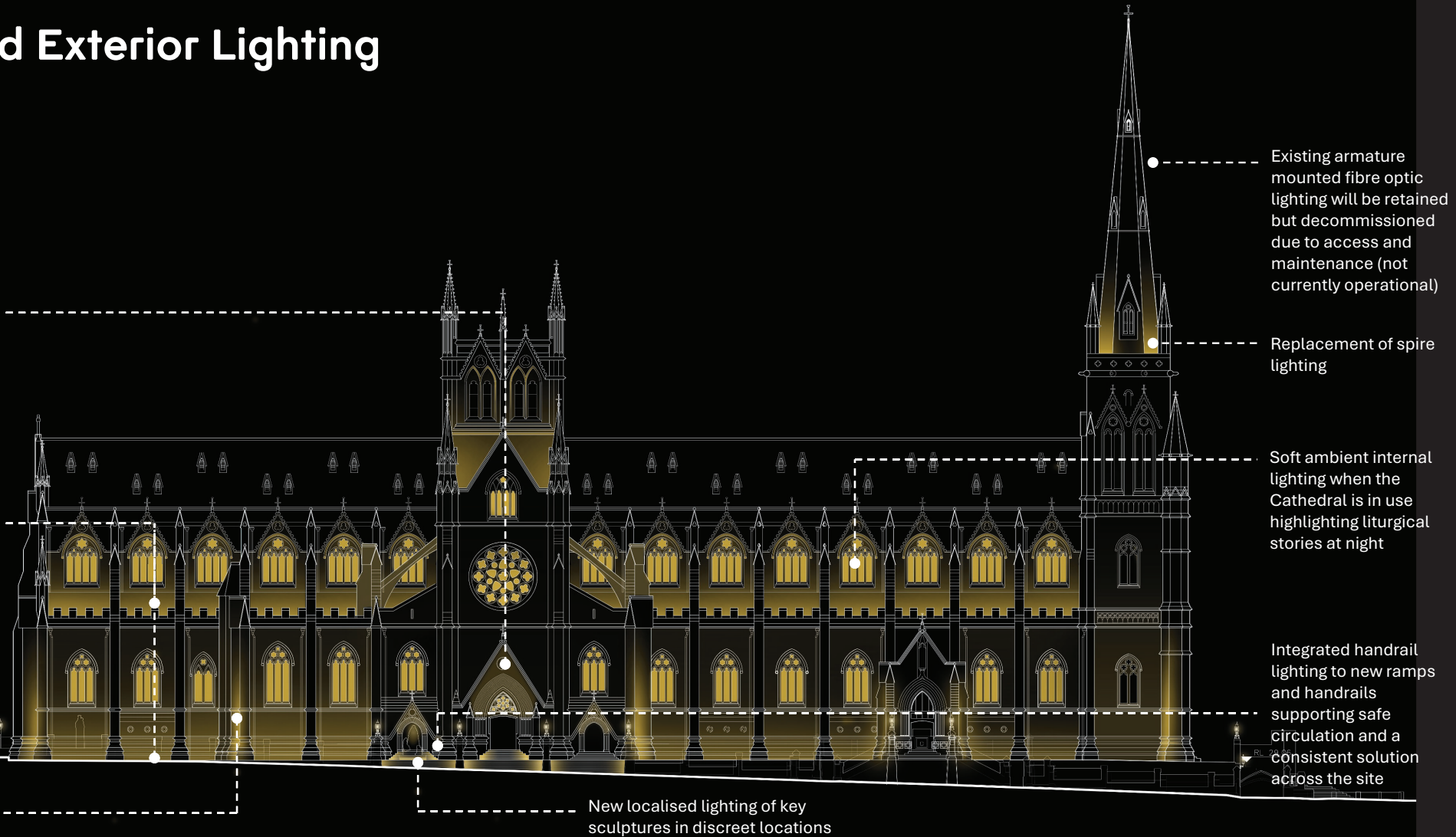
- Replacement of existing building floodlighting at ground level and triforia level on the façade to provide a soft wash of light and enhance the depth of the building. The locations are to be optimised to minimise shadowing and improve the lit effect.
- Upgrade of existing pole top and lantern luminaires across the site with new internal light sources. In key locations, internal light source arrangement modified to support supplementary functions including lighting of key building façade entries and sculptures with minimal visual impact.
- New in-ground uplights to key sculptures and building corners on College street to enhance street presence, identity of the building at night and the building footprint.
- New localised sculpture lighting located in considered and discreet locations
- Soft ambient lighting through the stained glass windows in the early evening when the Cathedral is still in use
- Upgrade of existing spire lighting with new
- Decommissioning of fibre optic lighting to the top of the spire as this is currently non-operational and non-accessible for maintenance
- Upgrade of existing external functional lighting where required
- Integrated handrail lighting to new ramps providing a discreet and integrated solution in line with existing arrangement elsewhere on-site for a consistent and cohesive outcome
- Replacement of external crypt lighting with a more architectural, discreet arrangement to light the cloister ceiling and circulation space below. Fitting locations to be optimised behind columns and at a lower level.

Proposed Exterior Lighting

Subtle lighting of key entrances from existing lantern and pole top luminaires with modified internal light source arrangement to support wayfinding and orientation

Existing façade floodlighting replaced in optimised locations

In-ground lighting to key building corners on College Street to define the building footprint



Proposed Interior Lighting Approach

Multiple scene approach

A layered lighting approach enables greater degree of detail and curation of lighting throughout the evening responding to the changing use of the site.

In the early evening, when the Cathedral is still in use, soft ambient internal lighting will highlight the liturgical stories of the stained glass windows.

Once the Cathedral is closed for the day, the internal lighting may be turned off with only key backlighting of the rose windows to remain on.

Throughout the evening façade and sculpture lighting will reduce in intensity, turning off in the late evening, minimising the impact of light on the external environment, whilst perimeter lighting for safe passage will remain on.

All fittings are intended to be individually dimmable, with fittings performing the same function being grouped for operational ease.

The final arrangement will balance presentation of the building, technical requirements, and the different requirements throughout the evening.

Proposed Exterior Lighting – After Hours



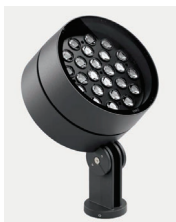
As the Cathedral closes for the day, the internal lighting may be turned off with only key backlighting to the rose windows to remain on.

Throughout the evening, external façade and sculpture lighting to reduce in intensity, turning off in the late evening with only lighting for safe passage to remain on.

The final settings will be balanced during commissioning responding the varying site requirements throughout the evening.

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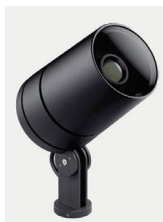
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Flood light



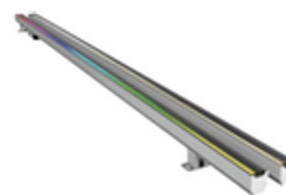
In-ground uplight



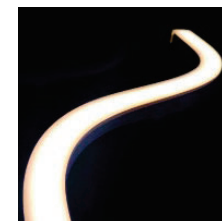
Flood light



Small spot lights



Linear grazer



Flexible linear luminaire