

LA TROBE TOWER

Lighting Plan for Extended Hours Works

VERSION 1 - MAY 2015



LIGHTING PLAN FOR EXTENDED HOURS

In addition to ensuring construction noise is kept to a minimum during extended hours works, Hickory is also taking measures to ensure lighting of proposed after hours works do not inconvenience or disturb the neighbouring residential community.

The following project lighting plan has been developed to ensure the management of a safe work environment for staff that does not create light pollution for neighbouring properties.

SITE LIGHTING REQUIREMENTS

Directional Task Lighting

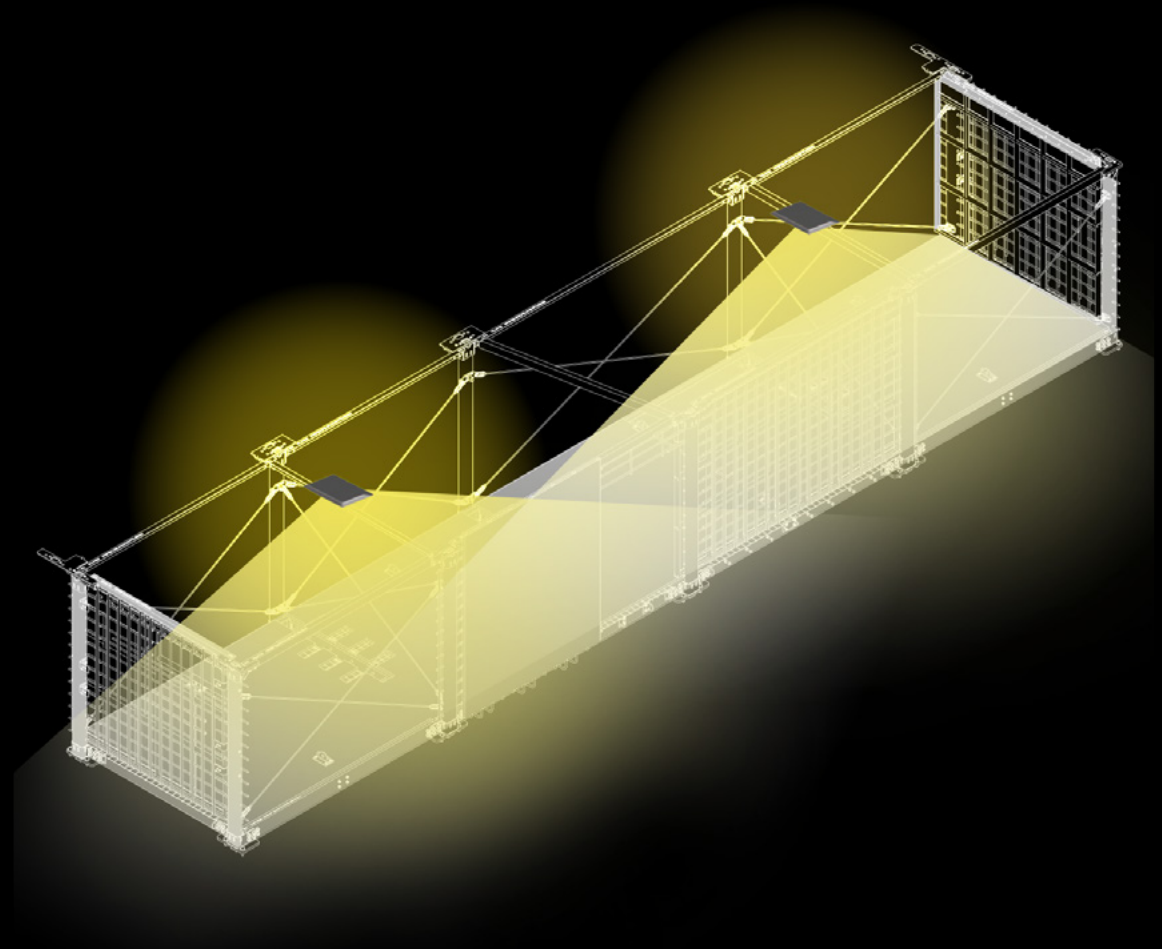
As a minimum number of staff will be required on site during after hours work, lighting can be safely limited to directional task lighting at key work areas, meaning excessive flood lighting of the entire site is not required.

Key areas for task lighting are as follows:

Prefabricated Structural Units

Each individual unit will be fitted with battery powered LED lighting at ground level. These lights will be fitted to the high level cross members inside each section, directing light downwards.

Once lifted via crane and landed in place, these same battery powered LED lights form the task lighting for workers that will be fixing the structural units in place on the building level.



For illustrative purposes only - not to scale

Directional Task Lighting...continued

Crane Lighting

Crane operations require access and egress lighting only to safely get in and out of the crane cabin. All lights fitted to the crane are non-glare LED lights. For safety reasons these access and egress lights are typically always illuminated during the night, even when a crane is inoperable.

As per all standard crane operations, a crane driver does not rely on visual cues to operate a crane as their vision of the site is very limited, and instead the driver communicates with site staff on the building or ground level via CB radio. These staff provide voice commands to safely instruct and guide the crane driver's movements.

The majority of activity during proposed extended hours work involves delivery and installation of materials that arrive via truck and are lifted directly into place. As LED lighting will be placed within the prefabricated structural units at street level, with this same lighting providing task lighting once the unit lands on the roof level, additional floodlighting is not required.

Street Lighting

Ground staff and traffic management personnel will operate under the existing street lighting conditions, which are sufficient for ground staff involved with traffic management and delivery unloading.



For illustrative purposes only - not to scale

General Nightly Site Lighting

Other than directional task lighting, the other light sources visible after dark will be the general site safety lighting that exists on any conventional building site.

These lights are activated after dark on a building site even when a site is not operating, and are designed to meet minimum safety standards and comply with necessary regulations.

Hickory's building methodology for this project involves transporting fully enclosed structural units to site that are already pre-fitted with the building façade (walls and windows). The pre-attached façade will dampen any general light spill from the lower building levels, which on a conventional building site would be open for several weeks or months until the facade had been installed. We therefore anticipate there will be less visible illumination on this site in the evenings than is usually visible on a conventionally built construction project.

An example of how a site is conventionally lit after dark is demonstrated below.



Melbourne night view showing construction sites - November 2014

Hickory.

Building innovation.



HOME

BACK