

Case Study

Adelaide City Council Lighting Upgrade

Colonel Light Centre, 25 Pirie Street, Adelaide, South Australia



Adelaide City Council's commitment to reducing carbon emissions originated in 2008 with the instigation of their Go Green with Energy Strategies where the ambition was to ultimately achieve a carbon neutral position by 2020. The first step in these strategies was to achieve a carbon emissions reduction of 60% by the close of 2012.

THE PROJECT

Retrofit Level 6 of the Colonel Light Centre offices with state-of-the-art LED lighting technology with the expectation to deliver:

- Reductions in carbon emissions
- Lower energy and maintenance costs
- Longer lamp life
- Improve lighting levels and quality within the work environment

THE SOLUTION

Although the existing luminaires in this 19th Century Building varied from location to location, the predominant luminaire was a recessed troffer (2 x 36W T8), each consuming 82W.

Electrical Contractors PSG Boffa and Russo replaced these existing luminaires on one floor with 136 Lumex NovaBlade™ LED Panels (1195x295mm) and reduced the power consumption per lighting point to 42W.

For common commercial T-Bar Ceilings it is often quicker and safer to change to NovaBlade™ than to carry out tube replacements and associated maintenance. In new installations the benefits are even greater.

Also included in the upgrade was the replacement of 40 halogen downlights. These were replaced with Lumex NovaLED™. In these areas the energy saving was in the order of 80%.



THE COST SAVINGS

By achieving energy savings in excess of 50%, the Council has saved \$4,400 pa at current energy prices. With these savings and lower demand on air conditioning, more comfortable lighting levels, and lower maintenance, Adelaide City Council was able to meet their 2012 carbon emissions goal and become the first 100% LED office floor in Adelaide.

They are now looking at replicating of these upgrades on other floors in the building.

THE FACTS

Annual energy savings in electricity bills	\$4,400 per year
Reduction in CO ₂ emissions	14.4 tonnes
Replacement of 58W Halogen	Lumex NovaLED 11W Downlights
Replacement of 2x36W - 82W Fluorescent lights	NovaBlade LED 42W Panels

APPLICATION



Office Areas



Reception



Corridors



Training Rooms



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NovaLED Downlights

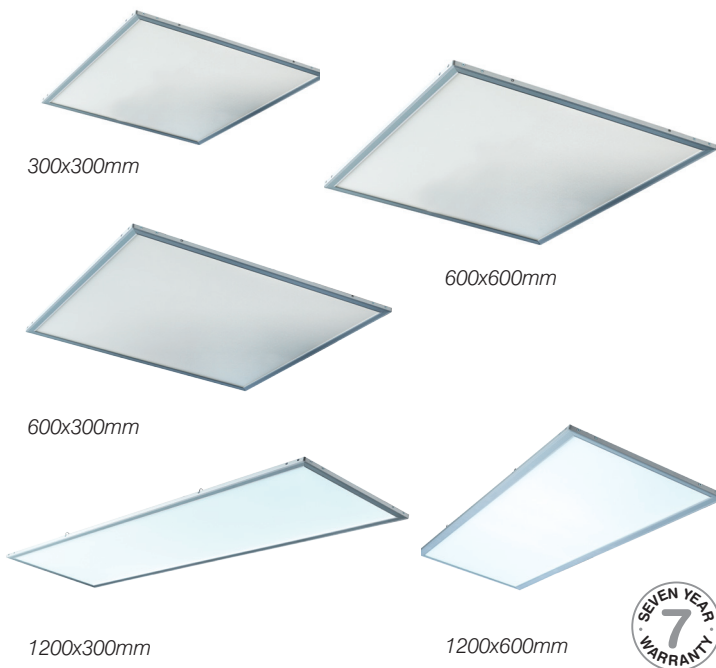
LLIN11## Series



Patented low glare lens
Smooth and even dispersal of light
More than 50,000 lamp hours
Low temperature for extra safety
Easily replaces most existing downlights
Dimmable with commonly available dimmers
+/-15° Gimbal Angle
Plug in power supply - 1.5m
White and Satin Silver fixtures
Three light colours
Broad and narrow beams (60°, 38°, 24°)
Full Australian Approvals
lumexlighting.com.au/novaled-downlights/

NovaBlade LED Panels

LL9P## Series



Even better performance and even higher output Excalibur models
More than 50% energy saving
Maintenance free life up to 50,000 hours
Outlasts more than 5 standard tubes
Smooth, even dispersal of light with minimal glare
New powder coat white finish
Super thin (8.8mm) and light weight
Robust and durable
Fully recyclable
Nowhere for dust and grime to accumulate
Nowhere for insects to gain access
Fitted with flex and plug for instant install
Suitable for T-Bar systems
Suitable for set plaster ceilings (with a flush kit)
Suitable for surface mount (with a semi-flush or surface mount kit)
Suitable for Pendant Mount (with a pendant mount kit)
Fully Australian Approvals
lumexlighting.com.au/novablade-led-panel/