

Case Study

St Charles Borromeo Catholic Primary School
230-234 Serpells Road, Templestowe, Victoria



St Charles Borromeo Catholic Primary School formed an Environmental Impact Group consisting of students, staff, and parents. Their aim was to identify and implement sustainable programs that will reduce the school's energy use and reduce their CO₂ emissions.

THE PROJECT

Stage 1 involved a range of low energy lighting initiatives that could make a significant difference and yet be economically sound.

Similarly, while keen to save as much energy as possible, they did not want to do so at the expense of adequate lighting levels.

Lumex LED Lighting in conjunction with NuGreen Solutions was able to provide an energy management strategy that supported all the objectives of their strategy.

THE SOLUTION

The existing installation consisted primarily of traditional fluorescent lighting and halogen down lights.

NuGreen replaced the twenty five halogen downlights with Lumex NovaLED 11W downlights, and the fifteen 2x36W Fluorescents with Lumex NovaBlade 42W LED Panels. The solution was enhanced by adding motion sensors to in some areas.

THE COST SAVINGS

The work completed in Stage 1 is expected to save the school \$1,100 in electricity in the first year and to lower the school's annual CO₂ emissions by 5.5 tonnes.



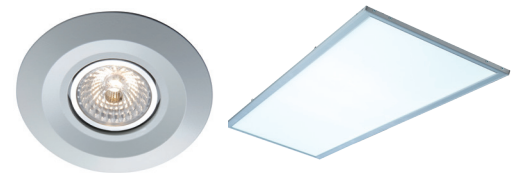
THE FACTS	
Annual energy savings in electricity bills	\$1,100 per year (at current rates)
Reduction in CO ₂ emissions	5.5 tonnes
Replacement of 58W Halogen	Lumex NovaLED 11W Downlights
Replacement of Fluorescent light	NovaBlade LED 42W Panels

St Charles Borromeo Goes Green

"A number of energy saving LED lights as well as movement sensors have been installed in the school. You will definitely see a change in the administration area, which is now bathed in bright white down lights, which only consume 11W of power instead of 58W of power per light."

Resources
nugreen.com.au

www.scbtemplestowe.catholic.edu.au/news-and-events/26/article/36/st-charles-borromeo-goes-green/



APPLICATION



Entrance & Administration



Classroom



Staff Room Boardroom



Use your smartphone to link to the website

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NovaLED Downlights

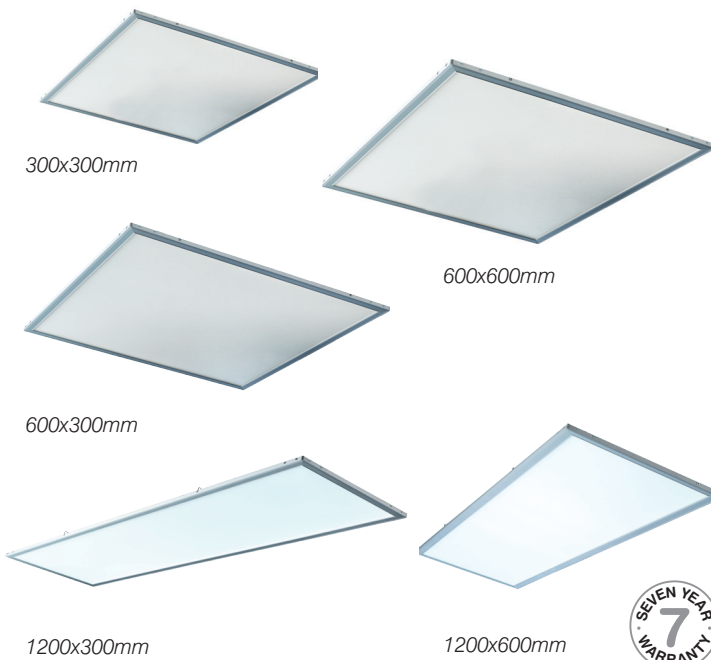
LLIN11## Series



- 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/