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HEART
COLLEGE

S O U T H E R N
LED
S O L U T I O N S

LED Lighting Case Study – School Campus

Sacred Heart College Senior, SA 5044

25th January 2016





School Campus LED Lighting Conversion



Opportunity:

Sacred Heart College Senior in Adelaide, were looking at ways to reduce their overall operating and maintenance costs, and one area they targeted for improvement, was lighting. With the existing ageing installation continually driving up maintenance costs, due the fluorescent, halogen and incandescent light fittings constantly requiring re-lamping and component replacements, due to the lengthy running times, a decision was made to explore a substantial LED lighting conversion. Southern LED Solutions were engaged to assess the current lighting installation, and determine the most suitable and cost effective LED changeover solution, whilst outlining the advantages of making the switch, including financial gain.

Southern LED Solutions Role:

The first step was to work with Sacred Heart College on a pilot/trial area, and determine the 'best-fit' LED lighting solution, considering the following factors:

- Light levels required (lux output), colour temperature and CRI (Colour Rendering Index) of lighting (Classroom environment).
- Type of light fittings required to keep installation costs to a minimum.

The next step was to carry out the trial/pilot area (classroom) to showcase the benefits of the LED changeover, before further conversions were carried out. Over the next 12 months (school year) feedback was gathered regarding the benefits of the changeovers, and a decision was made to continue the LED conversions on a larger scale, staging them during holiday periods. Southern LED Solutions again worked closely with the SHC Senior Maintenance Manager, to determine the priority areas for conversion and again provide the 'best-fit' LED lighting solution, considering the following factors:

- Light levels required (lux output), colour temperature and CRI (Colour Rendering Index) of lighting (Classroom/Office environment).
- Type of light fittings required to keep installation costs to a minimum and maximize areas converted.
- Overall budget constraints.

Success:

Southern LED Solutions liaised with SHC Senior throughout the complete changeover process, ensuring the final lighting set-up was effective, and all LED products were installed on time and within the outlined maintenance budget. Communication throughout the installation was regular, to make sure any questions or queries from SHC were answered. The final result was amazing, with all the classrooms and office areas converted (33 in total) being significantly brightened. By installing LED lighting, SHC Senior have not only improved the overall light output, they will also benefit from significantly reduced power and ongoing maintenance costs, compared to the previous lighting set-up (e.g fluorescent). Southern LED Solutions continue to work with the SHC Senior, regarding future stages of conversion throughout the existing campus and also new development areas.

School Campus LED Lighting Conversion

The LED Changeover Detail:

Below is the detail of the lighting changeover, showing the type and quantity of fittings converted to SOLAS LED. In total, 33 areas of the school were converted to LED lighting consisting of classrooms, common and office areas.

266 x 36W
Fluorescent Tubes



266 x SOLAS 22W
LED Tube Lights



16 x 18W
Fluorescent Tubes



16 x SOLAS 10W
LED Tube Lights



7 x 75W
Incandescent
Batten Holders



7 x SOLAS 14W LED
Oyster Lights



School Campus LED Lighting Conversion

The Result:

Below is a snapshot of what one of the classroom areas looks like in operation, with all SOLAS LED lighting products installed.





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LED Lighting Case Study – School Campus Stage 2

Sacred Heart College Senior, SA 5044

31st January 2017





School Campus LED Lighting Conversion



Opportunity:

Sacred Heart College Senior in Adelaide, are constantly looking at ways to reduce their overall operating and maintenance costs, and one area they target heavily for improvement, is lighting. With the existing installation continually ageing and driving up maintenance costs, due the fluorescent, halogen and incandescent light fittings constantly requiring re-lamping and component replacements (due to the lengthy running times), LED lighting conversions have been an ongoing process. Southern LED Solutions have been engaged to continually assess the current lighting installation, determine the most suitable and cost effective LED changeover solution(s), and carry out the changeovers.

Southern LED Solutions Role:

The first step was to work with Sacred Heart College on a pilot/trial area, and determine the 'best-fit' LED lighting solution, considering the following factors:

- Light levels required (lux output), colour temperature and CRI (Colour Rendering Index) of lighting (Classroom environment).
- Type of light fittings required to keep installation costs to a minimum.

The next step was to carry out the trial/pilot area (classroom) to showcase the benefits of the LED changeover, before further conversions were carried out. Over the next 12 months (school year) feedback was gathered regarding the benefits of the changeovers, and a decision was made to continue the LED conversions on a larger scale, staging them during holiday periods. Southern LED Solutions again worked closely with the SHC Senior Maintenance Manager, to determine the priority areas for conversion and again provide the 'best-fit' LED lighting solution, considering the above factors as well as budget constraints.

The most recent changeover saw the Art/Tech area converted from fluorescent light fittings (battens, troffers & CFL downlights) to low glare LED panel lights (UGR<19), with 100+ installed varying in size from 600x600mm to 1200x600mm.

Success:

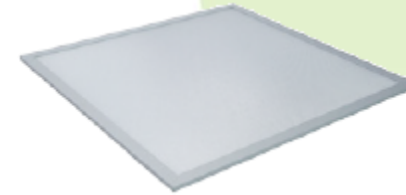
Southern LED Solutions liaise with SHC Senior throughout the complete changeover process, ensuring the final lighting set-up is effective, and all LED products are installed on time and within the outlined maintenance budget. Communication throughout the installation is regular, making sure any questions or queries from SHC are answered. The final result to date has been amazing, with all the classrooms and office areas converted (45 in total) significantly improved. By installing LED lighting, SHC Senior have not only improved the overall light output, they will also benefit from significantly reduced power and ongoing maintenance costs, compared to the previous lighting set-up (e.g fluorescent). Southern LED Solutions continue to work with SHC Senior, regarding future stages of conversion throughout the existing campus, and also new development areas.

School Campus LED Lighting Conversion

The LED Changeover Detail:

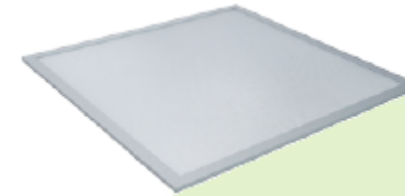
Below is the detail of the lighting changeover, showing the type and quantity of fittings converted to SOLAS LED. In total, 12 areas of the Art/Tech building were converted to LED lighting consisting of classrooms, hallways and office areas.

**36 x 72W
Fluorescent Battens**



**36 x SOLAS 33W
LED Panel Lights
(UGR<19)**

**48 x 54W
Fluorescent Troffers
(600x600mm)**



**41 x SOLAS 33W
LED Panel Lights
(UGR<19)**

**31 x 108W
Fluorescent Troffers
(1200x600mm)**



**31 x SOLAS 66W
LED Panel Lights
(UGR<19)**

School Campus LED Lighting Conversion

The Result:

Below is a snapshot of what some of the areas looks like in operation, with all SOLAS LED lighting products installed.





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LED Lighting Case Study – School Campus Stage 3

Sacred Heart College Senior, SA 5044

22nd January 2018





School Campus LED Lighting Conversion



Opportunity:

Sacred Heart College Senior in Adelaide, are continually looking at ways to reduce their overall operating and maintenance costs, and one area they continue to target heavily for improvement, is lighting. With the existing installation continually ageing and driving up maintenance costs, due the fluorescent, halogen and incandescent light fittings constantly requiring re-lamping and component replacements (due to the lengthy running times), LED lighting conversions have been an ongoing process. Southern LED Solutions have been engaged to continually assess the current lighting installation, determine the most suitable and cost effective LED changeover solution(s), and carry out the changeovers at the applicable time to suit SHC's maintenance program .

Southern LED Solutions Role:

The first step was to work with Sacred Heart College on a pilot/trial area, and determine the 'best-fit' LED lighting solution, considering the following factors:

- Light levels required (lux output), colour temperature and CRI (Colour Rendering Index) of lighting (Classroom environment).
- Type of light fittings required to keep installation costs to a minimum.

The next step was to carry out the trial/pilot area (classroom) to showcase the benefits of the LED changeover, before further conversions were carried out. Over the next 12 months (school year) feedback was gathered regarding the benefits of the changeovers, and a decision was made to continue the LED conversions on a larger scale, staging them during holiday periods. Southern LED Solutions again worked closely with the SHC Senior Maintenance Manager, to determine the priority areas for conversion and again provide the 'best-fit' LED lighting solution, considering the above factors as well as budget constraints.

The most recent changeover saw the library area converted from fluorescent light fittings (surface mount battens) to low glare LED panel lights (UGR<19), with 70+ installed (600x60mm & 1200x300mm) either recessed mounted in t-bar ceilings, or surface mounted with the relevant mounting kit.

Success:

Southern LED Solutions liaise with SHC Senior throughout the complete changeover process, ensuring the final lighting set-up is effective, and all LED products are installed on time and within the outlined maintenance budget. Communication throughout the installation is regular, making sure any questions or queries from SHC are answered. The final result to date has been very well received, with the library areas significantly improved. By installing LED lighting, SHC Senior have not only improved the overall light output, they will also benefit from significantly reduced power and ongoing maintenance costs, compared to the previous lighting set-up (fluorescent). Southern LED Solutions continue to work with SHC Senior, regarding future stages of conversion throughout the existing campus, and also new development areas.

School Campus LED Lighting Conversion

The LED Changeover Detail:

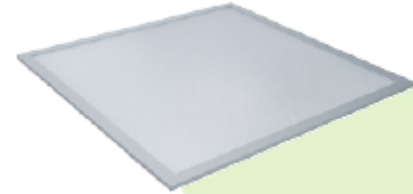
Below is the detail of the lighting changeover, showing the type and quantity of fittings converted to SOLAS LED. In total, 12 areas of the Art/Tech building were converted to LED lighting consisting of classrooms, hallways and office areas.

51 x 72W
Fluorescent Battens



51 x SOLAS 33W
LED Panel Lights
(UGR<19)

22 x 72W
Fluorescent Battens



22 x SOLAS 33W
LED Panel Lights
(UGR<19)

1 x 36W
Fluorescent Batten



1 x SOLAS 25W LED
Downlight

School Campus LED Lighting Conversion

The Result:

Below is a snapshot of what some of the areas looks like in operation, with all SOLAS LED lighting products installed.





School Campus LED Lighting Conversion



Testimonial:

Below is a testimonial from the Sacred Heart College Operations Manager.



www.southernledsolutions.com.au

Contact

For any questions or queries regarding this case study please don't hesitate to contact:

Damian Scanlon (Director)

☎ 0407 976 178

@: damian@southernledsolutions.com.au

Simon McCue (Director)

☎ 0417 847 047

@: simon@southernledsolutions.com.au

“We look forward to partnering with you for all your LED lighting needs”

