enLighten

Innovation in Lighting Solutions

DESIGNING QUALITY
LEARNING SPACES

SKYLINE

**ULTRA LONG LIFE SPAN
LED LIGHT >120,000 HOURS** *

* LED lifespan to L70

USING LIGHTING DESIGN TO CREATE A QUALITY LEARNING ENVIRONMENT

Increase attention spans, improve student moods, regulate alertness, well-being, performance and health.
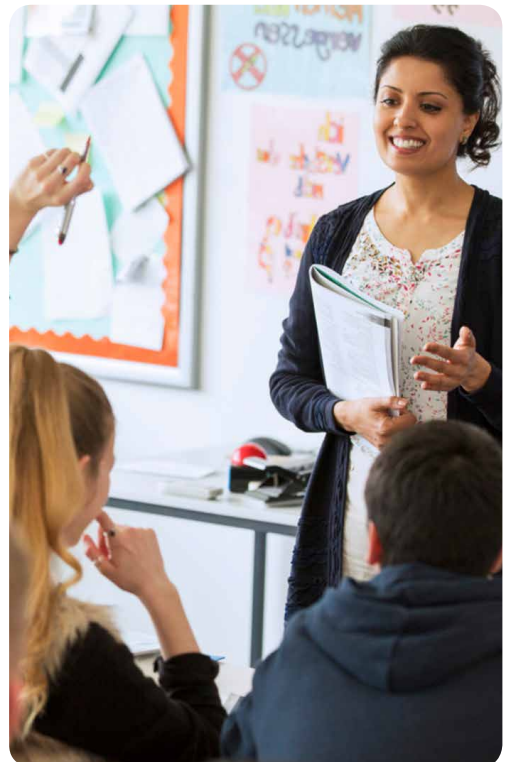
Lighting design for education is a challenging task as it accommodates for a wide diversity of educational activities and environments, from classrooms to gyms, libraries to science labs and break-out collaborative work areas.

Lighting needs to take into consideration the different instructional media and technologies; from electronic white boards, projectors, blackboards, TVs and computer screens.

Students are always placed at the centre of our contemporary lighting designs. The educational room is assessed for functionality, so tasks can be carried out accurately, comfortably, safely and to enhance a stimulating learning environment.

The installation of the right lighting solution and good lighting design is essential to create a quality learning environment.

✓ Higher illumination levels and higher correlated colour temperatures show positive effects on the level of concentration and/or oral reading fluency[1].

✓ Sufficient blue light in the morning can set the circadian clock which leads to improved health and performance[1].
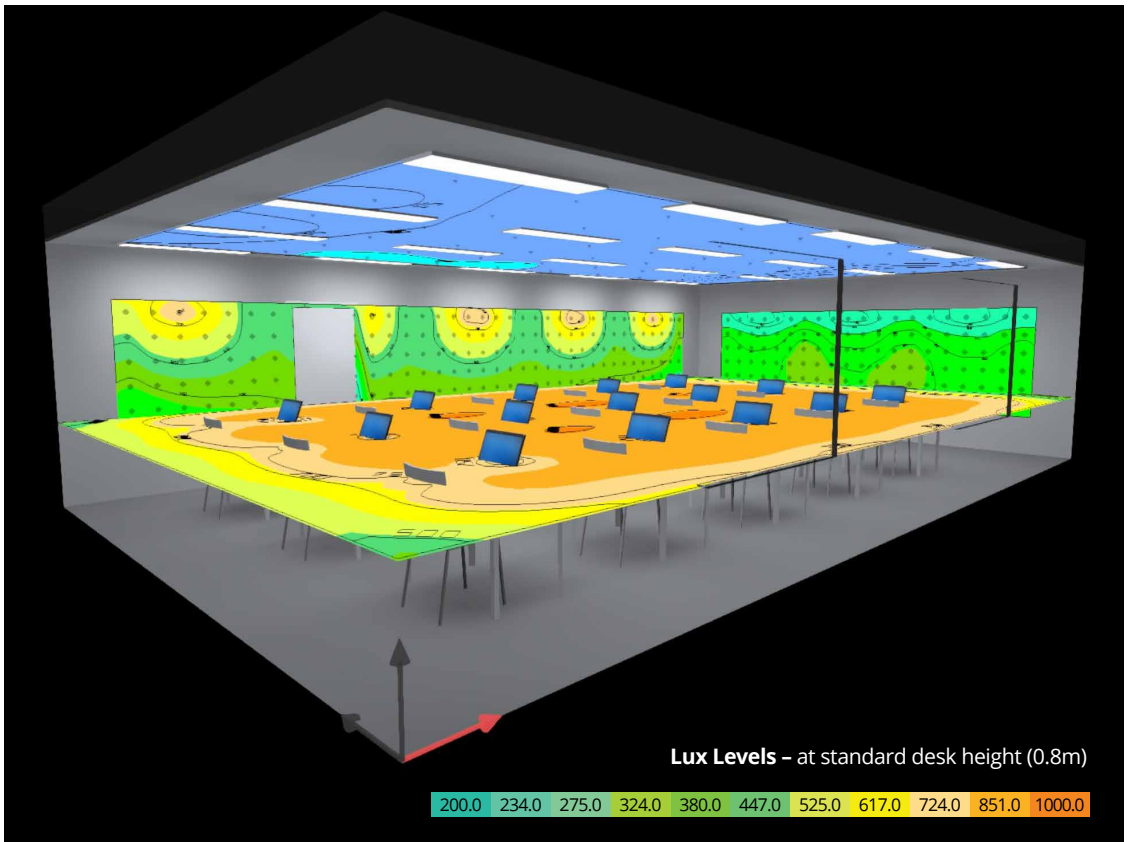
✓ An optimised correlated colour temperature of the electric light source can increase student concentration and accuracy[1].

✓ Students that suffer from ADHD respond to optimised illumination levels, which in turn decreases classroom disruption and increases concentration levels for students[1].

Quality Lighting Design to Optimise The Learning Environment

Lux Levels – at standard desk height (0.8m)

200.0	234.0	275.0	324.0	380.0	447.0	525.0	617.0	724.0	851.0	1000.0

[1] Schlangan, Lang, Novotny, Plischke, Smolders, Beersma, Wulff, Foster, Cajochen, Nikunen, Tahkamo, Bhusal, Halonen, 'Lighting for health and well-being in education, workplaces, nursing homes, domestic applications, and smart cities', Accelerate SSL Innovation for Europe, 2014.

The lighting design above has been developed to achieve an optimised learning environment.

Colour Rendering Requirements

Group	Colour Rendering Index (Ra)	Typical Applications
1A	90 and over	Where high accuracy colour matching is necessary
1B	80-90	Where accurate colour judgement is required
2	60-80	Where moderate colour rendering is adequate

AS 1680.1: Interior and workplace lighting – Specific applications – Educational and training facilities.

Recommended Lighting Requirements For Teaching Spaces

Type of Space	Maintained Illuminance Lux	Correlated Colour Temperature	Lamp Colour Rendering Group	Maximun Glare Index	Tailored Lighting Solution
Multi-purpose halls					
General Use	160	Warm or Intermediate	1B or 2	19	Kascade
Social Use	80	Warm or Intermediate	1B or 2	19	
Examinations	320	Warm or Intermediate	1B or 2	19	
Theatre Use	160	Warm or Intermediate	1B or 2	19	
General Classroom	320	Warm or Intermediate	1B or 2	19	Skyline
Workshops	320	Warm or Intermediate	1B or 2	19	Tauro Eco, Kascade
Art Rooms	400-800	Warm or Intermediate	1A or 1B		Skyline, Kascade
Laboratories	320	Warm or Intermediate	1A or 1B	19	Skyline
Music Rooms	320	Warm or Intermediate	1B or 2	19	Skyline
Textile Craft Rooms	320	Warm or Intermediate	1B or 2	19	Skyline
Gyms	320	Warm or Intermediate	1B or 2	19	Tauro Eco, Kascade
Libraries	320	Warm or Intermediate	1B or 2	19	Skyline, Lake

AS 1680.2.3: Interior and workplace lighting – Specific applications – Educational and training facilities.

Warm: ≤ 3300K and intermediate: >3300 to ≤ 5300K correlated colour temperature.

SKYLINE

✓ IPART ✓ VEET

ULTRA LONG LIFE SPAN >120,000 HOURS

LED PANEL LIGHTING FOR OFFICES & SCHOOLS

UP TO 67% ENERGY SAVINGS

FLICKER FREE

>90% LIGHT UNIFORMITY

LOW GLARE UGR<19

Providing the highest level of lighting comfort

"A well-designed LED lighting system can improve student concentration, health, well-being and productivity levels while lowering stress and creating a better mood."
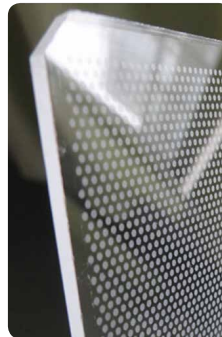
Lighting Council Australia

FLICKER & GLARE FREE

LOW GLARE UGR <19

The Skyline panel is engineered to give you a uniform, low glare and flicker free light to ensure the highest level of lighting comfort.

SUPERIOR OPTICAL DESIGN

>90% LIGHT UNIFORMITY

Achieves up to 92% light transmission through a high quality internal PMMA light guiding plate.

There is no yellowing of panels over time, so your fitting will remain attractive for years to come.

ENGINEERED TO PERFECTION

Superior design with an edge-folded backplate & welded frame for strength and durability.

Skyline is a slim lined LED panel designed to achieve the Australian Standard lux levels (AS 1680) for the office and school environment.

QUICK & EASY RETROFIT

5 YEAR WARRANTY

Quick and easy to install the Skyline panel has flexible mounting options such as surface, recessed and suspended mounting options.