

Tunable White Lighting

Adaptive lighting for healthier, happier spaces

enLighten

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Discover the future of lighting with Tunable White solutions

Lighting plays a significant role in our health and well-being, influencing everything from mood to productivity.

"*Since first learning about 'circadian lighting' at a conference in Bregenz, Austria, in 2014, I have followed the growing body of research highlighting the benefits of adjusting the indoor light colour temperature and intensity to match the outside. Despite the proven advantages, such solutions remain underutilised in non-residential settings, often due to costs, limited technical support, and a lack of understanding the benefits!*"

- Steve Cahill, Founder and CEO at enLighten.

What is the difference between circadian lighting & tunable white?

Circadian lighting mimics the natural light cycle by adjusting color temperature and intensity throughout the day, supporting human and animal biological rhythms. However, deploying such systems across large, multi-use properties can be complex and expensive, often requiring sophisticated automation and high installation costs.

Instead, targeted applications of Tunable White lighting offer a practical alternative. This approach allows users to adjust the light from warm (yellow) to cool (white) while simultaneously controlling intensity. By manually or automatically dimming and shifting color, users can instantly change the mood of a space from calm to focused. This delivers the targeted benefits of specialised lighting and increased flexibility while simplifying deployment.

Tunable White by enLighten

The Science of Lighting

At enLighten Australia, we believe in the science of lighting and its profound impact on productivity, safety, and well-being. Our Tunable White technology offers dynamic lighting solutions that adapt to the needs of people and the environment, optimising comfort and efficiency in commercial and industrial spaces.

NATIONAL ENERGY EFFICIENCY AWARDS 2016
Celebrating excellence in Australian energy efficiency
Best Energy Efficiency Innovation

ies The Lighting Society
2015 NSW Award of Excellence
Luminaire Design

AUSTRALIAN CLEAN TECH COMPETITION
2012 WINNER

SUSTAINABILITY GREEN GLOBE AWARDS 2011

Lighting Council AUSTRALIA ACCREDITED

FluoroCycle

Backed by enLighten Australia: Delivering Innovation Beyond Lighting Since 2009

enLighten Australia has been pioneering intelligent LED solutions that redefine industry standards. We don't just sell LED light fittings, we provide total cost-of-life solutions that maximise lighting performance through:

- Tailored Advice – Customised solutions for commercial and industrial properties.
- Smart Technology – Advanced lighting controls for optimal efficiency
- Sustainability & Savings – Energy-efficient LEDs that drive long-term cost reductions.

Our Impact

- **15 years of industry leadership**
- **5,000+ successful project installations across Australia**
- **$44.5M in annual energy savings for our customers**
- **Multiple international patents granted**

With enLighten's proven track record and commitment to innovation, our Tunable White solutions are designed to create smarter, more sustainable, and human-centric lighting environments.

Quality Management · ISO 9001 Global-Mark.com.au®

Environmental Management · ISO14001 Global-Mark.com.au®

OHS Management System · ISO 45001 Global-Mark.com.au®

Commercial applications of tunable white lighting



Warm Light
2200K - 3000K

Creates a calming environment by promoting relaxation & comfort.



Neutral Light
4000K

Provides a balanced environment, ideal for general tasks & everyday activities.



Cool Light
5000K - 6500K

Fosters a high-performance environment by boosting focus & alertness.

Examples of applications

The versatility of Tunable White lighting means settings can adapt as needs change. For example, a school hall can feature cooler light during exams and switch to neutral tones for assemblies, optimising both function and comfort.

Focusing on smaller, specific areas, like waiting rooms or boardrooms, simplifies lighting control and reduces costs while delivering significant benefits.



Doctor's waiting rooms/ Childcare nurseries

Warm, dim light helps create a calming atmosphere, easing patient anxiety as they wait for medical appointments or soothing children preparing for nap time.



Offices

Neutral light fosters a calm yet productive environment, ideal for maintaining focus & supporting general office tasks throughout the workday.



Exam halls

Cooler, high-intensity light enhances concentration & cognitive performance, making it ideal for exam & complex learning environments where focus is critical.

Application Spotlight: The Classroom

Classrooms today demand lighting that supports both logic and imagination. We are most creative when our environment stimulates the senses and gives the mind space to rest. With the right lighting design, Tunable White can assist students by boosting focus, reduce fatigue, support wellbeing, and even calm the room after recess and lunch.



Bright, cool lighting supports motivation, alertness, and productivity. Warm, gentle light promotes open thinking, teamwork, and relaxed creativity.

Lighting should adapt to the space, not the other way around. Different areas across a campus have unique lighting demands. The right solution is one that's tailored to each environment, delivering the right light, in the right place, at the right time.

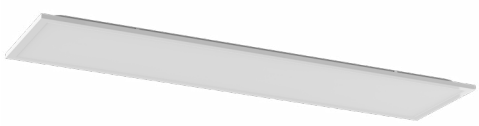


Imagine this, you're a primary school teacher introducing a new maths topic first thing in the morning. To help your students focus, you switch the classroom lights to a cool, bright setting, something that stimulates alertness and supports concentration. Then, after lunch, the mood shifts and you're running a group storytelling session so you dial the lighting down to a warm, soft tone that encourages creativity and calm. With Tunable White lighting, you can make these subtle but powerful shifts throughout the day to match the energy and demands of each activity.

Achieve Tunable White Lighting in 2 Simple Steps

Step 1: Tunable White Range

Explore our luminaires included in the **Tunable White** range.



Skyline Panel

The Skyline is a low-glare, backlit LED panel ideal for offices, schools and waiting rooms. The seamless, screwless frame offers a sleek, flat finish, suitable for recessed or surface mounting.

PRODUCT DETAILS

Model #	Rated Power (W)	Lumens (lm)	Size (mm)	Weight (kg)
SKY2-6030-9TW-DALI	19	2280	595 x 295	1.0
SKY2-6060-9TW-DALI	30	3600	595 x 595	1.9
SKY2-1230-9TW-DALI			1195 x 295	2.0

For Casambi, use -CAS in place of -DALI
For Koolmesh, use -KM in place of -DALI



Downlight DL200

The DL200 is a 90mm cutout downlight, ideal for office meeting rooms, foyers, waiting rooms, and retail spaces that require a customised lighting environment.

PRODUCT DETAILS

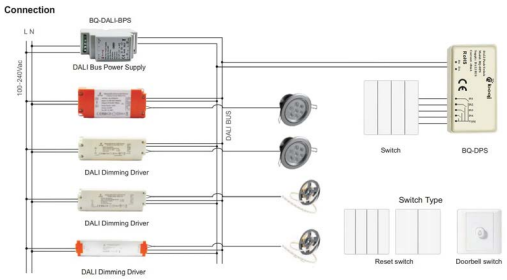
Model #	Rated Power (W)	Luminous Flux (lm)	Cutout (mm)	Weight (kg)
enl-DL200-18-9TW-60-DALI	18	1020-1460	Ø90-95	0.32

For Casambi, use -CAS in place of -DALI
For Koolmesh, use -KM in place of -DALI

Step 2: Control System

Pick your preferred **Control System.**

DALI is a standard protocol for bidirectional digital communication between lighting devices. DALI-2 DT8 drivers contain technology that allows for precise adjustment of colour temperature and brightness and in LED luminaires.



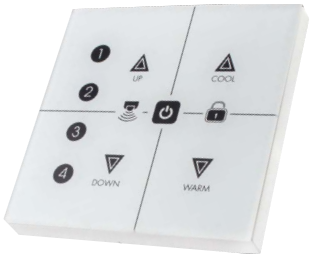
DALI-2 DT8 drivers allow for easy integration of Tunable White into an existing DALI installation. Compared to the other alternatives, DALI-2 DT8 is primarily a wired solution.

Casambi uses a Bluetooth low energy wireless mesh to offer a versatile and user-friendly lighting control solution. The Casambi ecosystem provides many of the components needed to deliver a digital control system.



The system can be easily controlled through an intuitive app available on smartphones and tablets, allowing for features such as scheduling, Tunable White, and scene setting.

Similar to Casambi, Koolmesh is a wireless control system that uses a bluetooth, low energy mesh to control lighting systems. Multiple driver, sensor and control options, are available, accessible by an app and/or web browser that enables simple commissioning of the system.



See Tunable White lighting in action at enLighten



www.enLighten.com.au | 1800 365 444

enLighten Australia Pty Ltd
3/12 Frederick St, St Leonards, NSW 2065