



Tunable White Lighting

Circadian Lighting



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 circadian lighting?

Circadian lighting mimics the natural light cycle by adjusting colour temperature and intensity throughout the day, supporting human and animal biological rhythms.

Tunable White lighting allows users to manually or automatically adjust lighting to suit specific needs, without strictly following the circadian cycle. This approach delivers flexibility and targeted benefits 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.



Best Energy Efficiency Innovation



2015 NSW Award of Excellence
Luminaire Design



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.



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.

In office environments, lighting plays a crucial role in employee well-being and performance. Cooler, high-intensity lighting in the morning can enhance alertness and focus, while neutral tones throughout the day help maintain concentration and reduce eye strain. With the flexibility to adjust lighting as needed, workplaces can create an environment that keeps staff engaged, productive, and comfortable throughout the day.



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.

Contractor & Client Benefits

Future-proof your spaces

Install now and fine-tune later.
No need to lock in a single colour temperature—adjust as needs evolve.

No more switches or ladders

Eliminate the hassle of three-position switches. Change colour temperature effortlessly from the ground—no ladders required.

One fitting, multiple options

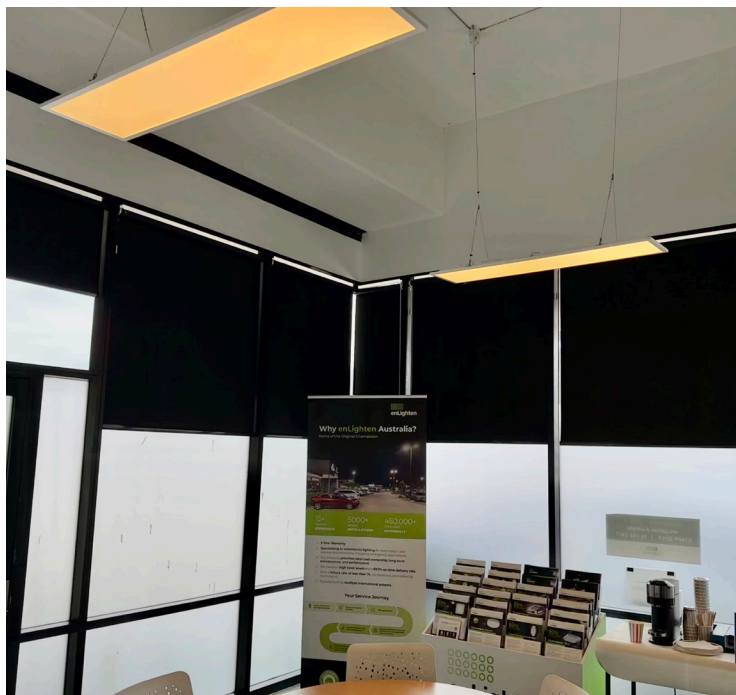
Meet changing specifications with a single fitting. Adapt lighting colour to suit any project without replacing fixtures.

Simplified & flexible wiring

Designed for easy installation, our system reduces complexity and saves time on-site.

Seamless dimming & colour transition

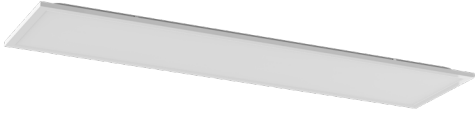
Enjoy flicker-free dimming and smooth colour adjustments for optimal comfort and performance.



Achieve Tunable White Lighting in 2 Simple Steps

Step 1: Product 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



Downlight DL860

The DL860 is a quality high CRI, low glare LED downlight with a wide range of power options and beam angles. Designed for general lighting with specific uses for retail and hotels.

PRODUCT DETAILS

Model #	Rated Power (W)	Luminous Flux (lm)	Cutout (mm)	Weight (kg)
enl-DL860-25-9TW-60-170-DALI	25	2750	Ø140-150	0.6
enl-DL860-30-9TW-60-190-DALI	30	3200	Ø160-170	0.7
enl-DL860-40-9TW-60-240-DALI	40	4250	Ø195-230	0.9

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

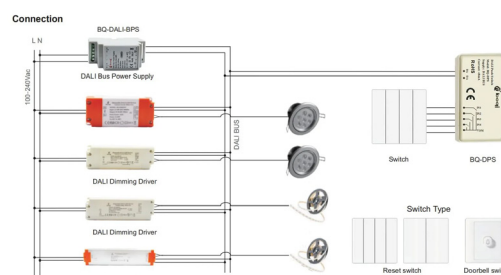
Step 2: Control System

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.



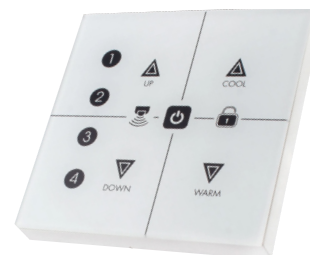
CASAMBI

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

enLighten's Connectable Lighting



Plug-and-play connector (disconnected operation)

PLUG-AND-PLAY CONNECTIONS
Quicker installation, save on labour and material costs

SAFER INSTALLATION
One way plug-and-play connections eliminates electrical faults

SUSTAINABLE
Re-usable leads and luminaires

IMPROVE SITE SAFETY USING A FLEXIBLE AND MOVABLE LIGHTING SOLUTION FOR EGRESS ROUTES AND WORK AREAS.



Tunable White Lighting

Exploring the Benefits of Circadian Lighting

What is Circadian Lighting?

Circadian lighting adjusts the correlated colour temperature (CCT) and intensity of indoor lighting to mimic the natural changes in outdoor light throughout the day. While implementing full circadian lighting in multi-use properties can be complex and costly, a practical alternative is to apply lighting that influences mood and behaviour in key areas.

Multiple studies show that both illuminance and CCT can significantly affect comfort, relaxation, and even heart rate. Though it doesn't strictly follow the natural circadian rhythm, **Tunable White** offers precise control over both colour temperature and illuminance, making it easy to create optimal lighting environments for any setting.

Tunable White isn't just about changing colour, it allows precise adjustment across the CCT range of 2700K to 6500K, as well as the lighting intensity (brightness). This flexibility enables users to create specific lighting conditions tailored to the needs of occupants.

How Tunable White Lighting Can Be Applied

Exam Rooms

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



Offices

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



Doctor's waiting rooms

Warm, dim light helps create a calming atmosphere, easing patient anxiety as they wait for medical appointments.





