



EAGLE LIGHTING

SILENCIO: ARIN

HARMONISING LIGHT & SOUND



SILENCIO: ARIN

EXPERIENCE THE HARMONY

An optimally lit and acoustically comfortable environment enhances concentration, promotes social interaction, and produces a feeling of well-being.

Introducing Arin - a suspended pendant that supports visual and acoustic optimisation.

Made in Australia from environmentally friendly materials, Arin is a stylish, sound absorbing high-performance luminaire designed to enhance commercial and education environments.

Thanks to its acoustic properties, this stunning

pendant enhances interior design while helping to maintain a comfortable and compliant ambient noise level.

With an acoustic panel forming the perimeter component, cushioning a central array of curved optical chambers, Arin provides premium quality, low-glare illumination.

Built with collaboration and focus work in mind,

Arin is ideal for a variety of spaces, including:

- Workplace tenancy
- Booths
- Receptions
- Quiet zones
- Break out spaces
- Virtual meeting conference spaces
- Spaces/rooms with multiple reflective surfaces, including glass, marble, and polished concrete
- Libraries
- Learning Spaces

Installing sound-absorbing luminaires in such

spaces helps control echo and reverberation, lowering the overall noise levels to create optimal working environments.

Arin can help you create the optimal environment for study or work - a significant lever to retain and attract staff or students.



SILENCIO: ARIN

FEATURES & BENEFITS

ENERGY-EFFICIENT, HIGH PERFORMING LUMINAIRE, WITH LOW GLARE

Arin is a high performing, energy-efficient luminaire with a very low Unified Glare Rating (UGR) - helping to create a comfortable office or learning environment.

CUSTOMISABLE SHAPES AND OUTPUTS

Arin's acoustic panel is customisable in shape providing you with creative freedom for your project.

AN ARRAY OF STYLISH COLOURS

Arin is available in three standard colours with a diverse range of contemporary colours available to complement your interior design.

LIGHTING PERSONALISATION VIA ORGANIC RESPONSE

Organic Response is a completely wireless, flexible and intuitive lighting control system - allowing the lighting to be adaptable to the multi-disciplinary uses of various areas and collaborative zones.

MADE IN AUSTRALIA

As a genuine local manufacturer, we provide you with:

1. Better control, more flexibility and faster production times.
2. A high level of customisation.
3. Limited supply-line disruptions.
4. Certified quality assurance.
5. In-house expertise and local support.

MADE FROM >60% RECYCLED MATERIALS, LOW VOC AND CDPH COMPLIANT

We think carefully about the entire lifecycle of our luminaires: how they're designed, what they're made of, their process of manufacture, and how they'll eventually be recovered and recycled.

We're passionate about offering sustainable, creative solutions that combine a quality product with a quality outcome.

Our goal is to offer luminaires with the smallest possible footprint that positively impact both people, places and planet.

ACOUSTIC OPTIMISATION

Arin is engineered and scientifically tested to optimally control reverberated noise and echo.

Each Arin pendant is capable of absorbing 45% of the soundwaves that it intercepts reducing the reverberant noise in a space.

Optimal lighting and acoustic performance reduce stress, minimise distractions, enhance productivity, and promotes social interaction by ensuring all occupants can clearly hear and be understood.

SUSTAINABLE PERFORMANCE RATINGS

Delivering a sense of comfort, wellbeing and harmony for occupants with minimal energy consumption, Arin is the product of choice for asset owners looking to achieve or enhance the WELL, Green Star, NABERS or other sustainability performance rating of their buildings.





CREATING HARMONIOUS SPACES



Acoustic conditions profoundly impact human performance in the workplace.

Due to varying ambient noise levels, office and study spaces can be distracting when trying to focus, collaborate or hold a virtual meeting.

Speech intelligibility is critical for conversations, while reduced background noise allows people to focus on their work.

A quiet space is vital for complex tasks, collaboration and deep work, especially for neuro sensitive people.

By utilising sound absorbing luminaires to help maintain a comfortable ambient noise level, it is possible to increase focus, lower stress levels and improve overall well-being.

OPTIMAL ACOUSTIC COMFORT

Arin is engineered and has been scientifically tested by the CSIRO to confirm that per each luminaire reverberated noise and echo is enhanced to deliver occupants the acoustic comfort that they deserve. This is especially the case in the all-important sound range relevant to communication (125-2000 Hz). At these frequencies, the noise absorption benefits of Arin is at peak performance.

OPEN SPACES RAISE ACOUSTIC CHALLENGES

Office fit outs with exposed services and high ceiling voids, that do not have the traditional acoustic ceiling tiles, reframes the design thinking around compliance to lighting standard AS1680 as well as the acoustic standards recommended by AS/NZ 2107, GBCA and WELL.

Arin meets both of these challenges.





CREATING HARMONIOUS SPACES



ACOUSTIC WELLNESS

Acoustical comfort is a key deliverable in commercial projects for occupants and participants.

The importance of acoustic design requirements for comfortable speech communication in meeting spaces is usually underestimated. This is often exemplified by complaints from remote parties during audio and video conferencing. When adequate intelligibility and acoustic comfort are provided, concentration is easier, and participants are less frustrated and more productive.

Given the ever-increasing use of remote conferencing within meetings, this higher level of amplified speech imposes a need for greater sound isolation, if activities in adjoining spaces are not to be disturbed. In addition, the sound power level of amplified speech of the remote party will be higher in a large area.

Open-plan spaces encourage teamwork and communication between staff, provide flexibility for a change in office layouts and are cost-effective. They do, however, result in compromised acoustics; in these areas, the sound absorption performance of the ceiling areas becomes particularly critical in determining sound isolation.

Without the traditional acoustic tile ceiling, a trend in office fitout noise reverberation becomes a major issue, focus and productivity is negatively impacted unless supplementary acoustic treatments are utilised.

To provide high acoustic comfort and effortless intelligibility, rooms must have suitable reverberation times and appropriately control the propagation of sound over time throughout the room at all the frequencies in speech. In technical terms, the total temporal response of the room must be considered.

Although reverberation time is an important component of the temporal response, there are other equally important components.

To address the temporal behaviour of sound in each space, the following items must be addressed:

- Control of reverberation times at all frequencies contained in speech.
- Control of sound that travels back and forth successively between parallel surfaces, such as walls.
- The spaces should be free of distracting sound effects, such as shrillness.
- Acoustic reflections from walls and ceiling that contain all the frequencies in speech, rather than only some of those frequencies.

The sound absorption coefficient parameter describes a material's ability to absorb sound, whereby a value of 1 is totally absorptive and 0 is totally reflective. An absorber may have a value of 0.6 at a particular frequency, which it can be thought of as absorbing 60% of the sound power that strikes it and reflecting 40% of the power.

To achieve acoustic comfort in a room, the goal is to lower the reverberation time and noise level. Each Arin pendant is capable of absorbing 45% of the soundwaves that it intercepts reducing the reverberant noise in a space.

Acoustically optimised, Arin increases acoustic wellness, reduces stress, increases concentration, and minimises distractions.



CREATING HARMONIOUS SPACES



REVERBERATION IN OFFICE AND EDUCATION ENVIRONMENTS

Reverberation time is a measure of how long it takes for sound to cease in an enclosed space after the source of the sound has stopped. Spaces with hard and/or reflective surfaces, such as glass, marble, and polished concrete, can result in compromised acoustics and uncomfortable learning and working environments.

Reverberation time is controlled through the use of sound-reducing surfaces. The sound absorption performance of ceiling areas is particularly crucial. Installing sound-absorbing luminaires, such as Arin, helps to control echo and reverberation, lowering the overall noise levels to create optimal working and learning environments.

Conference and teleconference rooms and open-plan workspaces, for example, can be subject to strict WELL criteria to ensure that noise build-up and reverberation are suitably controlled. In small spaces, high reverberation and reflected sound (echo) can affect the intelligibility of phone calls. In learning environments, such as classrooms, a low reverberation time enables speech to be projected to the entire classroom with clear intelligibility, enhancing the teaching and learning experience. Acoustic standards are a mandatory requirement within education settings.

In these environments, an optimal acoustic design that reduces sound reverberation time and maintains comfortable sound levels will provide effortless intelligibility at all the frequencies in speech - ensuring all occupants can clearly hear and understand the information that is being communicated.

As a highly efficient UGR compliant light source, Arin is designed to enhance people's working lives both visually and audibly - positively influencing comfort and concentration.



SUSTAINABLE ETHICAL AND MADE LOCALLY

Made in Australia, Arin is a sustainable and ethical acoustic solution.

With a significant component of the body made from environmentally friendly sound-absorbing material, Arin is highly durable, providing long-term luminaire stability and performance whilst delivering excellent acoustic performance.



ACOUSTIC PANEL MATERIAL DETAILS

- Carbon neutral body
- Circularity and zero-carbon manufacturing - We maximise reuse and resource efficiency in the design of our luminaires.
- Low VOC and CDPH compliant - <math><0.092\text{ mg/m}^3</math> (7 days). The CDPH Standard Method is referenced by some of the most widely used green building rating systems and codes around the world. VOCs evaporate, subsequently transferring harmful chemicals into the air. Using products with high VOC levels can be dangerous and it is not uncommon to see these materials contained within low cost imported products.



- Zero-waste manufacturing initiative - We aim to minimise waste trimmings as much as possible through smart design and advanced manufacturing machinery. Recovered waste is reprocessed and fed back in at the beginning of the line.
- Arin is ethically sourced and manufactured in Melbourne - supporting local jobs, and answering the social procurement and sustainability responsibility of corporate Australia and New Zealand.
- Microbial resistance: ASTM G21-15 - Growth rating: 0 (No growth). Arin does not promote the growth of moulds and mildew.



CIRCULAR

- Made from 100% polyester fibre (PET), PET is an excellent material choice. Importantly, at least 60% of this material is made from recycled plastic bottles. Using recycled content in the Arin repurposes plastic that would otherwise end up in landfill, giving it a new life. Arin is designed to be recycled at the end of its life which could be as long as 30 years!
- The Cube™ fabric used in Arin is manufactured locally by Autex from >60% recycled material.



ENVIRONMENTAL CERTIFICATIONS

- EPD – compliant with ISO 14025 and ISO 15804
- Declare – Red List free (third-party verified)
- ISO 14001 Certified Environmental Management
- Health Product Declaration
- CDPH Standard

At Eagle Lighting we are committed to sustainable manufacturing.





PREMIUM ILLUMINATION WITH PERSONALISATION AND CONNECTIVITY

Quality, low-glare and comfortable lighting is vital to human wellbeing and productivity, fundamentally influencing us visually and emotionally.

Arin provides premium quality, low glare illumination, with high colour rendering accuracy CRI90+ and options for colour changing and personalised lighting scenes.

A central array of high specification ABS injection moulded chambers and beam shaping microstructured film combines to provide optimum luminescence.

The product exceeds BCA 2019/J6 energy requirements via optimised beam distribution.

The combination of LED chips with the right spectral distribution and an optimum beam distribution achieves ideal vertical illuminance levels with high Circadian Stimulus (CS) and Circadian Lighting (Cla) values.

Designing, engineering and manufacturing product for the non-visual effects of light, such as circadian entrainment, positively impacting alertness, wellbeing and productivity has been a focus for Eagle Lighting.

It is these important metrics that play a key role in the field of lighting design for healthy buildings.



CONTROLS

With using Organic Response, Eagle Lighting provides you with an out of the box lighting control solution that is a flexible, truly intelligent, and wireless system unconstrained from the traditional DALI design and cabling limitations. Organic Response is easy to install and has no ongoing costs associated with specialist system integrators.

Organic Response sensors can be built into the Arin pendant at manufacture giving you the ability to create digital spaces comprising a sensor-rich density that is cloud-connected with an open API architecture.

Install today, ready for tomorrow.



DAYLIGHT HARVESTING FOR ULTIMATE SUSTAINABILITY

In an era where we all think about how we can reduce our carbon footprint, integrated daylight harvesting options are available with our Organic Response version of Arin. This means that the light fitting automatically recognises natural daylight entering a building - trimming and balancing the artificial light component and drastically reducing the energy consumption.



COLOUR AND CREATIVITY

Creative freedom abounds with Arin thanks to the acoustic panel being customisable in both shape and colour.

Enhance your interior design with Arin by selecting from a diverse palette of refreshing, contemporary colours to suit your unique interior design.

A rich offering of refreshing, contemporary colours to suit your unique interior design.

Standard colour selection:











OPERA

SAVOYE

FLATIRON

Additional colours available via customisation:

 ACROS	 BEEHIVE	 CAVALIER
 EMPIRE	 FALLING WATER	 GHERKIN
 HERALD	 MURALLA	 PARTHENON
 PAVILION	 PETRONAS	 PINNACLE
 ROSADA	 SENADO	 SERGAZO
 TREE HOUSE		

N.B. MOQ apply to all non-standard colours. Colour choices will continuously be updated based on trends, latest information will be available on our website





By combining all of the elements that we know to have profoundly positive benefits on people - colour, light, sound-absorption and personalisation - with Arin, you can create spaces and experiences that positively impact the environment and support people's productivity in a variety of office or education spaces.

EXPERIENCE
HARMONY.
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A Fagerhult Group Company

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