

eaglelightingaustralia

# **The Healing Power of Light**

Lighting Solutions for the Healthcare Environment



# Introduction

Complex healthcare environments demand carefully planned and thoughtful lighting solutions. Lighting must be welcoming, calming and healing, whilst aiding staff productivity and wellbeing.

And all of this must be provided by luminaires that are energy efficient, with minimal maintenance costs.

At Eagle Lighting Australia our high-quality, customisable and innovative lighting solutions, combined with leading-edge research and knowledgeable people, deliver outstanding outcomes for any healthcare environment.

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# Clinical Services

## Key Lighting Requirements

Colour rendition is crucial in theatres and recovery areas. Ra90+ LEDs are recommended to be used throughout recovery areas, scrub zones, utility rooms and operating theatres.



### PREPARATION AREAS

Illuminance must allow hospital staff to conduct the final preparation stages, but at the same time remain calming for the patient.



### RECOVERY AREAS

These areas with selective switching can bring individual control to suit the individuals needs, whilst recovering in multi-bed environments. Perfect application for Tunable White.



### SCRUB AREAS

Sufficient illuminance must be provided to ensure all staff are able to follow and complete washing protocols.



### OPERATING THEATRES

In theatres, dimmable solutions are required to allow the correct balance between background and task lighting. Consider coloured LEDs, such as green or blue, to create operating theatres more suited to advanced surgical technology.

## Clinical Services Solutions

	Product	Operating Theatre	Recovery Areas	Pharmacy/ Lab	Scrub/ Prep	MRI Imaging
	Operating Theatre Light	●			●	
	Secureroom			●		
	Cleanroom	●	●	●	●	●
	Florence+		●			
	Florence Elite		●			
	Pleiad G4		●	●	●	●
	Aureled Vista		●		●	●













# Coloured LED Solutions

The ever increasing understanding of the effects of light on people within the healthcare environment, coupled with the technological advances within surgical suites, has resulted in an increased demand for a range of coloured LED options.

For example, doctors now rely on advanced surgical technology, including robots and information displayed on video monitors, to undertake procedures. To ensure that equipment can be viewed optimally, a green background light can be used to enhance contrast for higher visibility on screen based information.

The use of green background light also means that turning off the lights within the operating theatre is no longer necessary. This means that OR nurses and anaesthetists do not need to struggle to function in the dark.

With that in mind we now offer specialist colour LED solutions, which include:

COLOUR		NOMINAL PEAK WAVELENGTH (nm)	ELA-MEASURED PEAK WAVELENGTH (nm)
	Royal Blue	452	451.4
	Blue	485	476.2
	Green	530	526.3
	Amber	590	595.9
	PC Amber	590	596.6
	Red	625	633.8
	Deep Red	660	658.8
	Far Red	730	737.7

For further information on coloured LED solutions for medical applications please refer to our **Advanced Applications of Light** brochure.





## Product Focus

# Operating Theatre Light



**The Operating Theatre Light has been specifically developed to meet the demanding requirements of the theatre environment.**

Together with an EPDM gasket, swing-out installation brackets negate the need for a silicon sealant around the fixture in the ceiling.

EPDM rubber foam is a closed cell gasket, ensuring a high IP- rating. At less than 10% compression this returns a 100% water tightness. The low-memory nature of the material ensures it will always return to its original shape.

The overlapping design construction provides this system with a continuous seal around the perimeter of the installation.

UV-stabilised, acrylic diffuser options contribute to the overall IP65-rating easily cleaned and maintained. When compared with polycarbonate options, our acrylic diffuser is resistant to hospital-grade cleaners.

- Also available with red, green or blue LEDs.
- Antimicrobial powder coating as standard.





## Product Focus

# Cleanroom LED IP44



## Using Best Available Technology (BAT)

Available in CRI 90+ and Cyanosis compliant as standard, our CR44L solution is a market leading Cleanroom LED product.

## Testing & Performance

The entire range has been photometrically, spectrally and thermally tested in our laboratory in Melbourne and then tested and verified by a NATA approved laboratory.

Tested to AS/NZS60598.1:2013, the CR44L runs (50% cooler than recommended component ratings in all conditions). This ensures a thermally stable luminaire, a dramatically reduced lumen depreciation and excellent colour stability for the life of the installation.

## Higher Colour Rendition

CRI 90+ (as standard) ensures excellent colour rendition, particularly in environments where correct colour is critical e.g. laboratories, hospitals and medical centres.

## Cyanosis Observation Index (COI)

Clinical observation is an important part of medical diagnosis, along with the early detection of cyanosis.

The Cyanosis Observation Index (COI) for a luminaire cannot exceed a score of 3.3. The CR44L range has a COI rating of 2.2 or lower making it optimal for detecting changes in skin tones, meeting the Australian & New Zealand Standards requirement (refer AS/NZS1680.2.5)

- Also available with red, green or blue LEDs.
- Antimicrobial powder coating as standard.





# Antimicrobial coating

Our complete cleanroom ranges (listed below) come with Antimicrobial powder coatings that protect against microbial growth, as standard.

By incorporating silver ion antimicrobial technology, our cleanroom luminaires will now be even easier to keep hygienically clean.

## How Does It Work?

While cleaning will help prevent microbial growth on products, the new powder coatings applied to our cleanroom luminaires provide an additional defence against microbial growth.

With the antimicrobial coating, a concentration of silver ions is available on the surface of the luminaire to act against target microorganisms.

In the presence of environmental moisture, silver ions in the coating penetrate microbes contaminating the surface of a treated product, disrupting their growth and reproduction. This leads to a reduction in the number of microorganisms on the surface of the coating, thus providing 24-hour protection, seven days a week.

## The Benefits

- Providing antimicrobial performance for the lifetime of the product
- Demonstrable ability to reduce bacteria by more than 99.9%
- The ability to inhibit the growth of moulds and yeasts.
- Meeting the highest antimicrobial standards.

**The products now offering this new powder coating as standard are:**

- Cleanroom IP44
- Cleanroom IP65
- Secureroom IP65
- LED Operating Theatre Light
- Aureled Vista



# Wards/Patients Rooms

## Key Lighting Requirements

In modern hospital wards, ambience can have a direct effect on patient recovery times. The aim is to create a comfortable, relaxing environment giving control of the immediate surroundings to the patient. Glare must also be minimised to make the recumbent patient as comfortable as possible.



### GENERAL LIGHTING

Illuminance should be sufficient to enable safe movement around patient areas. Ambient lighting should provide a relaxing lower level of illumination.



### GENERAL NURSING CARE

Lighting should be adaptable to allow medical practices to be carried out at the bed without intruding on the patients comfort.



### NIGHTLIGHT

Lighting should provide sufficient illuminance to allow staff and patients to safely move around. Amber light at night helps to avoid disturbing sleeping patients or over stimulating those who may wake.



### OBSERVATION

Dimmed observation settings for lighting provides enough background illumination for nursing staff to undertake continuous observation overnight.

## Wards/Patients Rooms Solutions

	Product	General Circulation	General Nursing Care	Night-light	Watch-light	Toilet/ Ensuite
	Florence+		●	●	●	
	OmniPOD Linear	●	●	●	●	
	Aluflex Medica		●	●	●	
	Florence Elite		●	●	●	
	Aluflex 600		●	●	●	●
	Eira	●	●	●	●	
	Aqua					●
	Monitor			●	●	●
	Pleiad G4	●	●	●	●	●
	Cleanroom	●	●			
	Vertex	●	●	●	●	●
	Aureled Vista	●	●	●	●	





## Product Focus

# Eira



**Eira was developed together with Speirs + Major, grounded in their vision for how modern healthcare lighting should perform.**

The luminaire addresses the need for flexibility in hospital wards by combining a general and examination light in the same fitting, while contributing towards a more domestic feel in wards, corridors and nurses stations.

### Key features:

- COI compliant
- Provides excellent general light, with a level of ambient light on the ceiling and wall.
- The opal shade softly diffusing light makes it comfortable to view, even at its highest output.
- Equipped with an innovative performance ring, the same fitting can instantly provide a focused downlight for emergency and examination requirements.
- The high-quality LED modules offer exceptional efficiency and longevity, further enhanced by its dual functionality which reduces the time required for installation and maintenance.
- Eira is equally as suited to corridors or nursing stations.

## Product Focus

# Florence+

### Elegant low profile design bedhead luminaire

The Florence+ bedhead luminaire is an expansion of the Florence Elite offer and delivers a COI compliant CRI90+ combination of diffused upward and downward light in an elegant low profile design.

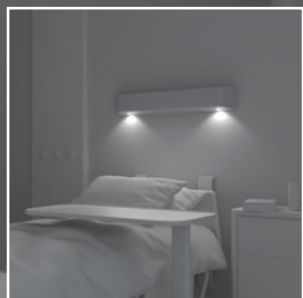
The outer casing ensures that Florence+ is easy to clean and will not harbour dust or germs helping reduce exposure to infections.

The LED light sources in Florence+ are independently dimmable allowing the variable light levels that need to be achieved in a bedded area, suitable for the relevant task or activity – and importantly patient and staff comfort. The powerful combination of upward, forward and downward light can deliver the full examination level of 1000 lux on the bed reducing the need for supplementary examination lighting.

Simple bedside controls also allow the patient to choose between pre-programmed scenes for daytime, nighttime and reading, promoting wellbeing and encouraging healing. These controls can be easily overridden by nursing staff to provide the correct levels of illumination for general nursing care, examination and patient observation.

#### Key Features:

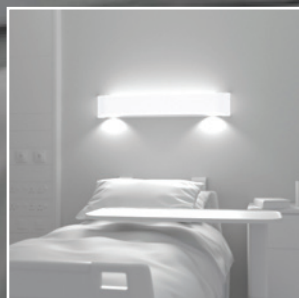
- Concealed indirect illumination
- Tunable white control
- Effective task lighting
- Wipe clean minimal horizontal surface
- Elegant non-clinical design
- Energy efficient
- Infection control



Patient Reading



Patient Resting



Patient Examination



# Open Public Spaces

## Key Lighting Requirements

Lighting in open public spaces should provide a sense of comfort, calmness and security. Focusing on the human visual, biological and emotional aspects of light, the design should deliver a place for respite and a seamless transition to clinical areas of the hospital.



### OFF CENTRE LIGHTING

Adds visual comfort and reduces glare for patients. It also provides shape and definition to wider corridors, keeps ceiling voids clear and simplifies the running of other services through these areas.



### SIGNAGE

Good vertical lighting assists in illuminating signage and directional indicators.



### INFECTION CONTROL

Care must be taken to ensure the appropriate level of infection control is met for the area that the corridor serves. Diffuser luminaires are best to use to reduce perception and likelihood of germ-harboring surfaces.



### ENERGY AND SUSTAINABILITY

Energy reduction is important in communication in open public spaces. It plays an integral part in the overall energy usage of the building. LED is a great solution to reduce energy loads, along with dimming and switching capabilities.

## Open Public Spaces Solutions

	Product	Corridors	Cafe/Dining areas	Waiting area
	Vertex	●	●	
	Aureled	●	●	
	Combilume	●	●	
	Ray	●	●	●
	Pleiad G4	●	●	●
	Pozzo Scale		●	●
	Notor 65	●	●	●
	Sweep		●	●
	Scoot		●	●
	Cleanroom	●	●	
	Appareo		●	●
	Zkye		●	●
	Tibi Pendant			●

## Product Focus

# Notor

From long unbroken lines of light to solitaires the Notor range offers several different designs to suit any project - whether you require purely decorative accent lighting or technically perfect application lighting.

Ingenious wiring accessories for continuous installations and geometric shapes, coupled with quick installation, high efficiency, visual comfort and lack of light leaks helps to ensure that this classic luminaire remains an international favourite.

Notor's expansive range spans suspended, surface mounted and recessed variations, offering the flexibility to maintain a consistent aesthetic across numerous applications.

Given all the possibilities its different variants and designs offer, Notor can be summed up in three simple words: creativity - flexibility - economy.

With Notor only your imagination is the limit.





## Product Focus

# Zkye

### Create a modern and distinctive look with Zkye - Fagerhult's new spotlight series.

A tasteful and discreet luminaire, designed to complement your interior style in the most appealing way. No matter if you opt for track spotlights, pendants or a wall mounted system, we have a solution to suit your venue.

Zkye is available with three different reflectors allowing you to best enhance the characteristics of any space. Light is distributed comfortably without producing glare, providing a pleasant experience for employees and patients/visitors.

Thanks to its deep front, Zkye provides soft, clean light distribution making it the ideal solution for cafés, restaurants, lobbies and waiting areas.

#### Key features

- Efficient railed suspension design enabling easy adjustments to the room lighting, without impacting the ceiling or wall
- Flexible family with options for mounting on track, suspended in fixed ceilings and on walls
- Available in stylish black or white
- Built-in DALI and versions controlled with Casambi
- Glare-free with soft, clean, light distribution
- Integrated driver in most versions



# Administrative/ Consulting areas

## Key Lighting Requirements

Consulting and Administration areas need to provide a user friendly, performance based and comfortable environment for all working in this vicinity. Visual comfort is paramount to the staff as they work long shifts and travel throughout many different areas of the hospital.



### ELECTRONIC SCREENS

In administration areas, flexible lighting solutions are required to allow the correct balance between background and task lighting. It also must ensure that glare is not created by reflecting light off reflective surfaces and computer screens.



### FACE TO FACE COMMUNICATION

An appropriate lighting solution must provide not only the correct amount of light but also the right type of light. This will ensure that all parties involved are focused on the conversation and not distracted by harsh or intrusive lighting.



### SHIFT WORK


It is imperative especially with staff on different body clocks due to shift work, that admin areas have well planned circadian lighting systems. Well lit spaces contributes towards a positive working environment and assist in synchronising circadian rhythms.



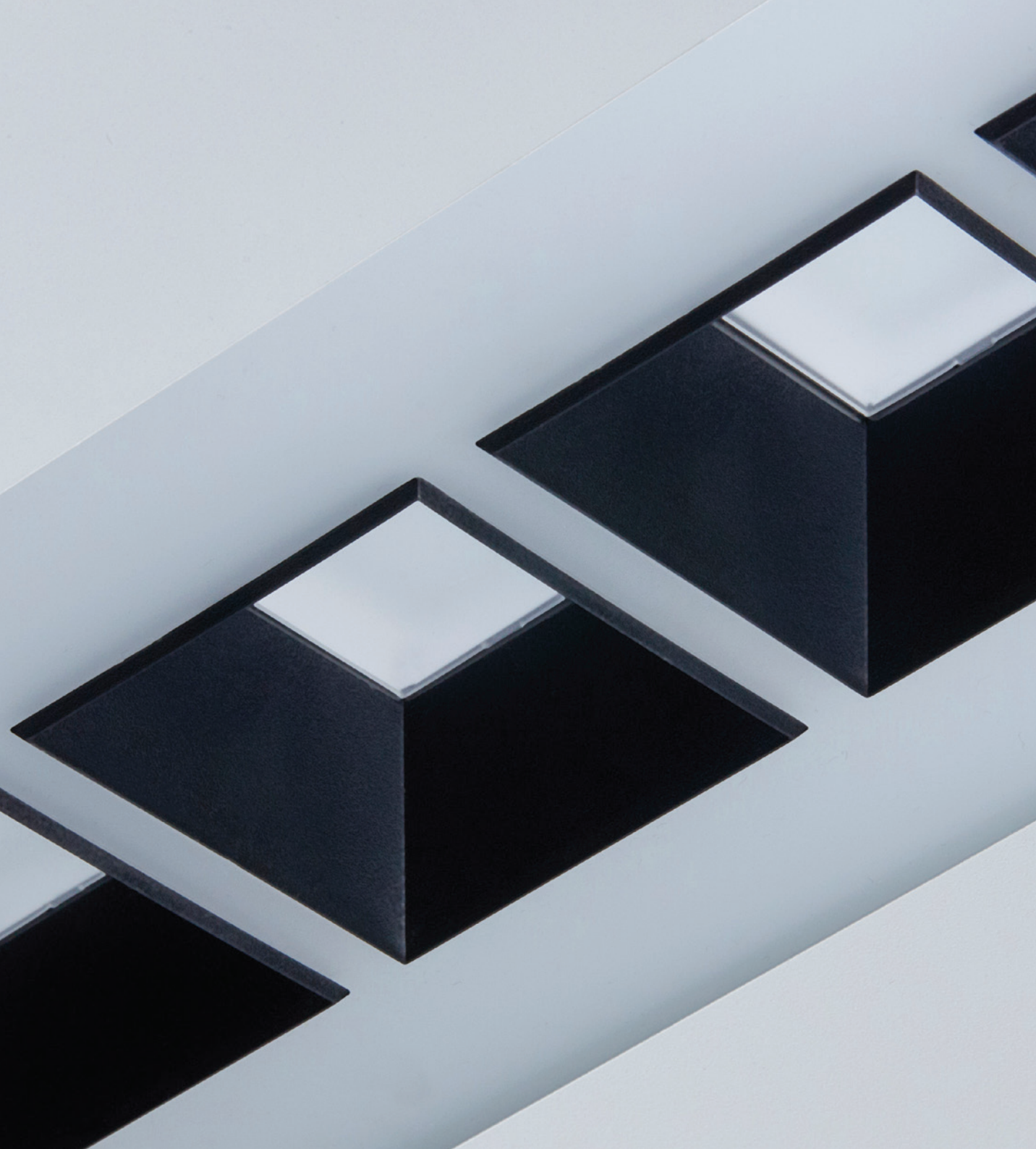
### MANUAL TASKS

In administration areas, flexible lighting solutions are required to allow the correct balance between background and task lighting.

## Administrative/Consulting area Solutions

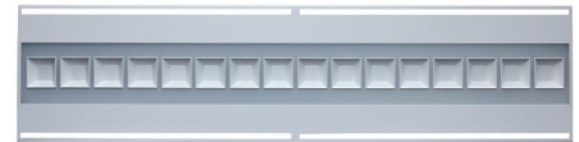
	Product	Admin	Reception	Consulting Room	Staff Room
	OmniPOD Linear	•	•	•	•
	Indigo Maestro Beta	•	•	•	
	Dwide	•	•	•	•
	Vertex	•	•	•	•
	Combilume	•	•	•	•
	Notor	•	•	•	•
	Scoot				•
	Sweep				•
	Pleiad G4	•	•	•	•
	Allfive LED	•	•	•	•
	Aureled	•	•	•	•
	Pozzo I				•





## Product Focus

# OmniPOD Linear



**The creative freedom offered by LED has been embraced in the unique design of the OmniPOD Linear.**

Easy to install and an attractive option at only 38mm thickness, the OmniPOD Linear is especially suitable where limited ceiling depth is a concern.

Suitable as an individual luminaire or can be run end-to-end to create a continuous linear feel.

Designed, tested and manufactured in Australia, the OmniPOD Linear provides excellent optical performance and energy efficiency.

### Key Features:

- CRI90+ as standard.
- Optimised wide beam distribution with extremely low glare due to its innovative optical pod design.
- Excellent lifetime figures; TM21 L70 greater than >72,000hrs
- Customisable length and outputs.
- Available with Tuneable White (DUO1 & DUO2) or Organic Response.
- COI (Cyanosis Observation Index) compliant.



## Product Focus

# Combilume

**Combilume is an inventive family of large surface area luminaires designed so you can develop imaginative light settings.**

In Combilume, LED technology is really in its element. The modern light technology and side-emitting light diodes result in pleasant, even surfaces both for individual office work stations and for large rooms where people come together.

As always our LED luminaires have been developed with visual comfort in mind. By planning with ambient lighting we can create an environment that makes people more alert and able to perform better.

Available in wall, ceiling or pendant versions, with direct or indirect light, in a number of sizes.

Available with Tuneable White.

### Key Features:

- Aestetical and functional
- Energy efficient
- Various option of sizes and versions for creative light planning
- Integral driver
- Use as single fittings, create continuous lines or clusters





## Product Focus

# Dwide

**Dwide is an extremely diverse and versatile product family – ideal for healthcare environments.**

Dwide offers recessed, ceiling-mounted and suspended options, all with a variation of light distribution patterns. These are complemented by the attractive corner and wall variations.

All luminaires in the family have a low environmental impact throughout their life cycles and help to keep down overall energy consumption for the building.

Dwide provides quick and easy installation with generous, easily accessible openings and terminals. No tools are required for installing the front section which was an essential consideration during the development.

Dwide – a luminaire family where superior aesthetics, light ergonomics, and versatility all effortlessly meet.

### Key Features:

- Complete product family
- Utilises unique anti-glare technology with dual optics
- Fully sealed with no opening to collect dust.
- Quick and easy installation
- All versions available with integrated Organic Response

# Lighting Controls



**Today's best-in-class LED lights deliver impressive energy savings. When enhanced with controls that offer daylight harvesting, presence detection and data capture the outcomes can be spectacular.**

By selecting Organic Response's integrated SN3 sensor node your hospital gains the benefits of an intelligent and elegant lighting control solution, without the higher costs associated with legacy-cabled lighting control systems.

With the simple addition of Organic Response's 'IoT Gateway' facility managers can capture data to better understand their building occupancy trends, energy needs and dynamically improve space utilisation. In addition to this the Organic Response Portal provides visual information as to how space is used in real time via heat mapping, light sensing and power consumption monitoring.

Native handset integration, asset tracking, Bluetooth Beacons and other applications are only the tip of the future possibilities that the SN3's mesh communications backbone could provide in the future.

## **Ideal for:**

Administration areas, consulting rooms, staff rooms corridors and car parks.





# Exterior Areas/Carparks

## Key Lighting Requirements

Outdoor lighting performs an important function for everyone arriving and transiting around the facility. Correctly integrated exterior and carpark lighting welcomes the visitors, helps guide them to entrances and delivers a sense of safety and security.



### UNDERCOVER AREAS

Well lit undercover areas ensure visitors and staff experience a feeling of safety and security when arriving and leaving the facility especially at night.



### OPEN AREAS

The lighting for outdoor open areas must not only allow for appropriate lighting on roads and pathways but also provide conclusive visual conditions in places where people congregate.

## Exterior Areas/Carpark Solutions

	Product	Open Areas/ Pathways	Undercover Areas	Entrances
	Vialume	●		
	Evolume	●		
	Venus	●	●	●
	Xoolum	●	●	
	Kalypso	●	●	●
	Densus LED		●	
	HercuLED		●	●
	Hero		●	
	Rondo G3		●	●
	Lobby Basic		●	●
	Tonight Bollards	●	●	●
	Skill	●	●	●

## Product Focus

# Rondo G3

### Luminaires for creative outdoor lighting

When darkness falls, outdoor spaces appear to change shape and so lighting near a building is important to ensure an attractive and safe environment is maintained.

With Rondo G3, you can accentuate the inherent qualities of the architecture – highlighting the façades, spatiality, solutions and structures of the building and making the space feel more open.

Rondo is a complete family of LED luminaires including both wall, ceiling and post luminaires. The ceiling luminaires are available in both recessed and surface-mounted versions.

#### Key Features:

- Various luminous fluxes and distribution angles
- Quick installation
- Unique lens and reflector technology
- Energy efficient
- High protection class and corrosion class
- CLO as standard





# Case Studies

## Calvary Bruce Private Hospital ACT



Opening in September 2017, Calvary Bruce Private Hospital is a \$77 million dollar state of the art private hospital on Calvary's Bruce Campus. We supplied luminaires from theatres to patient areas, back of house and car parking.

### **Eagle Lighting Australia supplied:**

LED Operating Theatre Light

Pleiad Compact coi

Pleiad Comfort coi

IP44 Cleanroom

Vertex

Enviro Evoline

Densus

Pleiad Evo

Herculed

A range of luminaires by Designplan, Fagerhult, Simes & Whitecroft

## Sunshine Coast University Hospital QUEENSLAND



ELA are proud to be positioned as the key lighting solutions partner for projects of this size and complexity within Australia.

ELA worked closely with Lend Lease to achieve all of their requirements. 75% of the luminaires in this project are Australian Made by Eagle Lighting Australia. The remaining 25% of luminaires include our brands Fagerhult, Simes, Whitecroft and Designplan.

### **Eagle Lighting Australia supplied:**

Operating Theatre Lights

Florence Elite

Flexitroffer

Range of Downlights by ELA, Fagerhult, Simes & Whitecroft

## Bega Hospital NEW SOUTH WALES



ELA's ability to deliver a quality, cost effective lighting solution across all areas of a hospital can be seen in this project. We supplied luminaires from theatres to patient areas, back of house and car parking. The NSW team worked with ARUP and Heyday5 on this project.

### **Eagle Lighting Australia supplied:**

Cleanroom IP44

Flexitroffer

Indigo Combo

Florence Elite

Pozzo

Pleiad G3

## Royal Adelaide Hospital SOUTH AUSTRALIA



ELA worked with our distributor, H.I. Lighting in Adelaide to meet particular requirements of the new Royal Adelaide Hospital. Reading lights, standard room luminaires and examination luminaires with cyanosis were required.

The Pleiad with anti-ligature kit was installed within mental health areas. Along with the Cleanroom IP65 for negative and positive pressure rooms. Each fitting within the project was specifically customised to meet installation requirements.

### **Eagle Lighting Australia supplied:**

Cleanroom

Pleiad G3 Cyanosis

Linjar

# Eagle Lighting Australia puts people at the centre of lighting solutions.

**We are passionate about collaborating with our clients to help them find the best lighting solution for their unique projects – carefully considering everyone, from the varied project stakeholders through to the end users.**

Our high-quality, customisable and innovative lighting solutions, combined with leading-edge research and knowledgeable people, deliver outstanding outcomes for both indoor and outdoor environments.

We pride ourselves on our stable of leading global brands, coupled with our in-house R&D, testing and manufacture of customisable luminaires all from our state-of-the-art facility in Melbourne.

We understand that providing the best lighting solutions requires expert consultation and lighting design, quality products and outstanding customer service. When you choose Eagle Lighting, you don't just get high quality lighting. You get a high standard of service and ongoing support.

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We are passionate about collaborating with our clients to help them find the best lighting solution for their unique projects. As a Fagerhult Group company, our access to global experts and products offers a combined capability that is unmatched in Australia.

## FAGERHULT

The Group's main brand founded in 1945. Solutions for offices, education, healthcare, stores and outdoor lighting.

## SIMES

Luce per l'architettura

Simes has become one of the most reputable manufacturers of architectural outdoor lighting on the international market.

**designplan**  
LIGHTING

A niche, yet leading, actor on the British market, with solutions for demanding and robust environments.

**LED LINEAR™**  
lighting solutions

LED Linear develops, manufactures and distributes high quality, scalable Linear LED modules for interior and exterior lighting.



Type of interior or activity	Maintained Illuminance lx	Max UGR
<b>1 PATIENT AREAS</b>		
1.1 Wards—General:		
(a) General lighting	160	D/G
(b) At bedhead (reading)	240	D/G
(c) Examination lighting	320	N/A
(d) Night lighting	1	N/A
1.2 Patients' lounges	160	19
1.3 Wards—Infants:		
(a) General lighting	240	D/G
(b) Night lighting	10	N/A
1.4 Wards—Intensive care and other high dependency areas:		
(a) General lighting	160	D/G
(b) Examination lighting in bedded areas	400	N/A
(c) Night-watch lighting	10	N/A
<b>2 PATIENT TRANSIT AREAS</b>		
2.1 General	160	D/G
2.2 Emergency department to operating rooms	240	D/G
<b>3 PATIENT BATHROOMS, TOILETS AND SHOWERS</b>	160	N/A
<b>4 TREATMENT AREAS</b>	160	N/A
4.1 General area types:		
(a) Type A areas	400	N/A
(b) Type B areas	320	19
(c) Type C areas	320	19
4.2 Surgical suites:		
(a) Operating rooms	Special Conditions	Special Conditions
(b) Clean-up and scrub-up rooms	240	N/A
(c) Plaster rooms	320	19
(d) Recovery rooms:		
(i) General	240	D/G

Type of interior or activity	Maintained Illuminance lx	Max UGR
(ii) Examination	400	N/A
4.3 Casualty and accident department:		
(a) Reception/triage counter	400	19
(b) Waiting room	160	22
(c) Treatment/examination rooms	400	N/A
(d) Operating room	Special Conditions	Special Conditions
4.4 Outpatients' department:		
(a) Consulting/examination	320	19
(b) Audiometry	320	19
(c) Physiotherapy	240	D/G
(d) Plaster room	240	19
4.5 Maternity suites:		
(a) Delivery room/birth unit	Special Conditions	Special Conditions
(b) Nurseries:		
(i) Normal new-born	240	D/G
(ii) High dependency	240/400	D/G
(iii) Critical care	400	D/G
(c) Babies' wash	240	D/G
(d) Formula preparation	240	22
<b>5 SPECIAL EXAMINATION AND TREATMENT ROOMS</b>		
5.1 Endoscopic examinations:		
(a) General lighting	400	N/A
(b) Urology, gastroenterology, gynaecology	(20 to 50)	19
5.2 Ophthalmic examination:		
(a) General lighting		
(b) Refractometry/skiascopy/ophthalmoscopy	(50)	19
(c) Perimetry/adaptometry	(5)	19
5.3 Organ imaging:		
(a) General lighting		

Type of interior or activity	Maintained Illuminance lx	Max UGR
(b) Work at monitor	(4)	16
(c) Screening/viewing and reporting room	(80 to 240)	19
(d) MRI anaesthetic area	400	Special Conditions
5.4 Oncology treatment	400	Special Conditions
5.5 Dental examination	320	Special Conditions
5.6 Dermatological examination		
5.7 Dialysis rooms:	320	19
(a) General lighting		
(b) Treatment	(160)	D/G
5.8 Therapy rooms:		
(a) Medical baths/hydrotherapy pools	160	N/A
(b) Physiotherapy/massage	240	D/G
(c) Occupational therapy	320	19
5.9 Pathology laboratories	400	19
5.10 Mortuary and post-mortem:		
(a) Post-mortem room:		
(i) General lighting	240	19
(ii) Over table	400	N/A
(b) Body store	160	22
(c) Viewing	160	19

## 6 SUPPORT AREAS

6.1 Nurses' station:		
(a) General/desk at night	240	19
(b) Desk by day	320	19
6.2 Dirty utility room	160	25
6.3 Clean utility room	240	25
6.4 Laboratories and dispensaries	400	19
6.5 Doctors'/Nurses' duty room	240	19

- Where the illuminance values are enclosed in parentheses, the value stated is a working level rather than a maintenance level.
- Where an illuminance recommended for a specific procedure is lower than that which is recommended for the general lighting, the illuminance may be provided either by a secondary lighting system or by dimming the general lighting.





**EAGLE LIGHTING AUSTRALIA**

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