

# Data Centre Lighting Solution



**Lpa** LIGHTING  
AND ENERGY  
SOLUTIONS



## LPA Lighting and Energy Solutions

We have extensive experience in delivering lighting solutions for data centre projects. This experience merged with our range of quality products and a team of experts positions us to provide total lighting solutions and energy optimisation to increase safety and light quality.

LPA has over 30 years of experience in delivering lighting solutions across all industry sectors. Our experienced team can assist you at every stage of the project in lighting design, product selection, project management and implementation support.

From data halls to office areas and the exterior of the building, LPA offers a broad range of styles, outputs and sizes to suit your requirements. The products we offer are carefully selected to meet relevant compliance requirements for commercial environments and come with a 5-year warranty.

### Lighting Design

Our Designers and Electrical Engineers team has global experience in lighting design for data centres. With a focus on energy efficiency, safety, security, comfort and visibility, our designs meet the needs of our clients regardless of their budget. We prioritise the well-being and comfort of the engineers and office staff so they can perform at their best. LPA can deliver a customised lighting solution to ensure energy optimisation is a key deliverable for your project.

### Energy Efficiency

Lighting is often an overlooked area in data centres but can have a significant contribution to reducing your energy consumption. Data centres consume a large amount of electricity with the majority being used by servers and the HVAC systems to keep them cool. Every year, businesses are spending millions to keep their operation running. One of the simplest ways to improve your energy usage and cost is to replace your traditional lights with LED energy-efficient ones. LPA uses the latest technological developments to ensure reliability and performance. We offer light fixtures and compatible smart lighting control systems that can reduce your energy consumption.

### Visibility

Visibility is one of the most important factors when it comes to data halls. The network and service engineers need to see all the racks clearly to carry out their diagnostics and work accurately. Adequate vertical illumination is required to evenly illuminate the server racks from top to bottom and the front to the back rows.

It's also important to have visibility in the external areas of the building. Pathways and the building's façade should be illuminated clearly to ensure safety and security.

### Security & Safety

Data centres offer limited natural lighting, so it's critical to have sufficient illumination in the event there is a power outage or when the lighting has failed. Network and server engineers need to be able to work uninterrupted to repair any issues until the power is restored. Emergency lighting can provide safety and security to ensure all possible evacuation routes are illuminated clearly.

Data centres also hold sensitive information including customer data and intellectual property. Security, safety and maintenance are key factors to secure the site for staff internally and externally.

## Smart System Solutions

As part of LPA Energy Group, we can provide smart lighting solutions. From bluetooth lighting control to IoT data monitoring platforms, our purpose is to provide modern smart solutions for our clients that make a positive difference operationally, financially, and environmentally.

We work with integration partners to select the most appropriate lighting control and management technology for each specific project and client. This enables LPA to seamlessly deliver excellent lighting solutions matched to real-world client needs ranging from simple automation through to highly complex dynamic scene & event control and remote oversight and control from any web-enabled device.

To maximize value from smart lighting systems LPA strongly recommends integration with other building systems through our WideSky® platform.

WideSky® provides a very robust cybersecurity layer and contextualises the lighting system's operational status, history and energy use. WideSky® also enables advanced real-time automated control functionality coordinated with other building systems and external factors such as weather forecasts.

WideSky® provides LPA customers unlimited aggregation and reporting of multiple sites, campuses and tenancies.

### WideSky®

Merging smart lighting systems with our WideSky® software management platform brings a new approach to the integration of all aspects of smart building data.

WideSky® is an Australian, cloud-based IoT system, developed to make it easier for you to unlock the value of your data. Our SaaS and hardware solutions connect to almost anything, integrating with legacy equipment, IoT sensors and third-party software, eliminating data silos and giving your data context and meaning.

WideSky® monitors, analyses and reports on energy usage, the indoor environment, and space utilisation in real-time giving you visibility, insight, and control over the performance of your working environment. Users can access live data from as many locations as their business needs, on any device, allowing businesses to more effectively manage resources and drive cost reductions.

With simple, user-friendly tools businesses can interpret and act on information that otherwise may not be easily understood, leading to faster, data-driven decisions, reducing risk and cost, improving wellbeing and benefiting the environment.

WideSky® measures and monitors anything you want to the level of detail you need, and reports it how you want, and to whom you want.



# Sustainability

LPA is committed to reducing the impact on the environment by increasing our products' energy efficiency and decreasing energy usage in the production processes.

We partner with our clients, suppliers, and other stakeholders to continually improve business processes that may affect the environment ensuring to measure, monitor and report on environmental management initiatives.

We drive our sustainability through three key pillars:



## PLANET

We are actively looking at solutions that assist our clients in minimising their footprint on the environment.

### Supply Chain

We have operational procedures that monitor our performance and recognise that we are responsible for finding efficiencies throughout our supply chain to minimise our environmental impact.

We care about minimising hazardous waste used in manufacturing by using recyclable components where possible and ensuring our service model maximises energy efficiency for our clients.

### Packaging

We use biodegradable packaging where possible including recycled cardboard and eco-friendly products. If possible, all incoming cardboard is reused for repacking.

### Recycling

Working alongside Ecocycle in Australia and Lumicom in the UK, LPA ensures responsible disposal of luminaires, fluorescent tubes, lamps and bulbs.



## PEOPLE

People make the difference and can make the change. From staff to suppliers to our clients we want to create a positive future for everyone.

### Business Integrity

LPA demonstrate a high level of professionalism with our employees, suppliers and manufacturers in complying with ethical and sustainable business practices.

We aim to reduce energy consumption and extend the life of products by staying up-to-date with the latest technologies and offering customers eco-compatible solutions.

### Partners

We build partnerships – establishing long-term and effective relationships with staff, suppliers, manufacturers and clients.

Our partners are committed to achieving the same outcomes and continually strive to improve all areas of the business in sustainable practices.

### Associations and Charity Partnerships

We partner with charities that are aligned with our business goals and vision and have memberships with associations relevant to regional industry requirements.



## PERFORMANCE

We want to ensure our processes and practices make a difference. By measuring performance, we can ensure we are doing so. We use the best product and backed by WideSky® we can monitor and validate our environmental impact.

### Product

LPA continues to drive innovation in LED technologies by working with our manufacturers and suppliers worldwide. We use the latest release LED and driver technology to offer our clients a longer-lasting, more durable product that offers better light quality.

LEDs use less energy, reducing energy costs as well as reducing maintenance costs.

Our products are tested for regional compliance assuring quality and performance.

### Design

Lower wattages, higher lumen output and higher efficacy in our products allow us to focus on designing for local requirements. Further to the technical developments in LEDs, our design methodology includes increasing the use of dimmers and control systems to reduce energy usage.

### Controls & Sensors

LPA designs for the best light output using the most efficient fittings and are compatible with all control systems.

We are developing our energy management solutions in IoT technology and extending our offering to include resource optimisation software.

### Solar PV

We provide solar solutions with attractive returns on investments. We can assist in reducing energy consumption which can also be controlled and integrated with our WideSky® platform for real-time reporting and analysis.

### Implementation & Review

We are actively building an ecosystem of complementary technology partners in efficient HVAC, water treatment and similar systems.

By using WideSky®, we can monitor key objectives and targets allowing us to effectively manage our environmental performance using real-time data.



## Our Product Range

We offer an extensive range of products suitable for data centres. This is a small sample of our product range, please click on the image for further information. Our team is here to help so please do not hesitate to [contact us](#).

### DATA CENTRE HALL



### GENERAL AREAS



### CIRCULATION AREAS



### BREAKOUT ZONES



## We Build Partnerships

Contact us today to discuss your next project



[lpalighting.com](http://lpalighting.com)