

# BURRANA

## LED Lighting

LED Lighting is a reliable, flexible and affordable solution for airlines to create a unique travel experience for their passengers. Through innovative engineering and enhanced features, LED Lighting provides a special look and feel for the cabin, creating an elegant platform to reduce jetlag and further bring your brand to life.

With full control from the crew terminal, the system enables selection from any number of pre-set lighting profiles. These can be developed in conjunction with you by manipulating more than four billion color settings to choose your preferred lighting shade and intensity.

The Burrana LED Lighting solution is designed for rapid installation. Replacing existing light assemblies, it operates through GLIDE and runs efficiently from existing power and control.

### Key Features and Benefits

- Enhanced passenger experience through the provision of an elegant lighting signature.
- Reduces jetlag by inducing natural sleep/wake cycles.
- Significant weight savings versus fluorescent systems.
- Crew members control lighting profiles via the crew terminal.
- Fully programmable transitions between colors.
- Full control of color intensity via the cabin management terminal or NV monitor.
- Independent ceiling and sidewall control.
- Replacement lighting modules are available for most existing fluorescent light assemblies – from 6" to 60".
- 5 LEDs per inch for uniform lighting.
- Same 48V headend power supply – connects redundantly and convection cooled with crown-mounted power supplies running up to 650W.
- Full zone support to individually control lighting levels and colors across multiple aircraft zones.
- Fluorescent lights age rapidly when switched off and on again (e.g. when changing to ground power). LED Lighting is not affected in this way. Furthermore, it has momentary holdup to hide the flicker caused by the bus change.
- LED Lighting does not give off UV light, thereby increasing the serviceable lifespan of plastics and reducing discoloration within the cabin.
- LED Lighting has no sound: no fluorescent buzz gives customers a more comfortable flight.
- Bright enough to charge Saf-Tglo and other phosphorescence markings.

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- Staggered switching of the four colors reduces flickering and smooths motion over other LED lighting systems – alleviates eyestrain and headaches for passenger comfort.
- Low-voltage DC and no high-voltage capacitance means a greatly reduced risk of harm to maintenance crew when replacing a unit.
- Fully supported service with our five-year forward exchange warranty.
- Single color (white) and two-color options available for low-cost, maintenance-driven replacements. Will work with existing lighting control.

## Technical Specifications

- 4 LED matrix to maximize color depth and intensity.
- Power from 2.6W to 16.8W. Up to 60 per cent reduction in power over traditional fluorescent aircraft lighting.
- Maximum lumen range of 140 lm to 1600 lm.
- Minimum 200 millisecond momentary holdup.
- Lightweight – less than 10g per inch.
- Reliable MTBF >250 khr, long life LD70 of 100 khr. Typical fluorescent light has an MTBF of just 20 khr.
- Power factor > 0.96.

Our modular and affordable engineering designs include PAVES and GLIDE embedded, overhead and portable IFE, USB and 110V power, LED lighting, passenger services, tape replacement, crew applications and content services. We deliver tailored solutions with reliable performance, operational efficiencies, and offer ancillary revenue potential.

To discuss how our solutions can best fit your needs, visit [burrana.aero](http://burrana.aero)