

**Cost-effective cabin  
lighting systems with  
unmatched reliability,  
customization, and  
performance.**

# SpektraLite™

Create a symphony of colors



**MULTI-ZONE  
CONTROL**



**SELF  
TUNING**



**PLUG AND  
PLAY**



**UP TO 40%  
LIGHTER\***



**USES 60% LESS  
POWER\***



**EXTREME  
RELIABILITY**



**INDUSTRY  
LEADING  
WARRANTY**



**CUSTOM  
SOLUTIONS  
AVAILABLE**



**SUPERIOR  
CABIN  
EXPERIENCE**



**MORE  
GRADUAL  
TRANSITIONS**



**EASY  
TROUBLE-  
SHOOTING**



**LASTS  
100,000+  
HOURS**

\*compared to traditional OEM systems



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# SpektraLite™

Superior performance at lower costs.

Contemporary cabin lighting environments are much more customizable than ever! In addition to ceiling and sidewall wash lighting, there are now many lighting features in the cabin, such as: accent lighting, branding panels, monument lighting, and entry lighting. Bruce SpektraLite mood lighting systems simplify the coordination of all of these into a harmonious lighting presentation.

The SpektraLite mood lighting system can assign luminaires to up to 16 separately programmable lighting zones. Once programmed, the complex lighting presentations can last from seconds to hours, and can be set in motion with the push of a single button. Bruce's easy-to-use lighting Scenario and Editor tool runs on standard laptops and tablets, allowing the user to control the lighting system in real time. It also allows the finished lighting designs to be quickly and easily loaded into the mood lighting system. The customer's custom color palette can be created using a known coordinate system (the CIE 1976 color space), or custom colors and intensity levels can be intuitively adjusted using simple linear controls in real time.

## VERSATILITY OF CONTROL

Whether you want to control the mood lighting system using existing cabin lighting controls or you desire more sophisticated control features, Bruce has you covered. In Standalone mode of operation, the Bruce mood lighting luminaires are controlled using the same aircraft side signals used to control the OEM cabin lighting. Existing flight attendant controls can be used to actuate lighting Scenarios that are stored within each Bruce luminaire. The number of lighting Scenarios available to the customer in this mode of operation is dependent on the aircraft model and type.

In Network mode of operation, supplementary mood lighting control units are added to the system. These additional units enhanced the versatility of the Bruce mood lighting system by expanding the amount of lighting presentations available to the customer and add special features not typically available through the OEM lighting controls. Bruce also offers different lighting control interface products such as touch panels and membrane key pads, which can be custom tailored to the customer, allowing the user to upgrade from the traditional rotary switch/manual button lighting controls often found in older aircraft.

installation design and certification support, training, and lighting design assistance. Unique installation challenges and timely execution are our particular expertise.

## LATEST IN LED TECHNOLOGY

- **207 LUMEN/WATT EFFICIENCY RATING**  
64% power consumption savings over OEM fluorescent system in 100% white output
- **428 LUMEN/FT OUTPUT IN 100% WHITE OUTPUT**  
Certified to charge all photo-luminescent escape path marking systems
- **UNRIVALED LIFESPAN**  
Lumen Maintenance (LMBO) > 100K hours; LED anti-aging compensation
- **RGBW SYSTEM**  
New tighter LED pitch and engineered optics for highly uniform color blending
- **PRECISE COLOR MATCHING AND CONTROL**  
3 SDCM binning of white LEDs; Single wavelength binning of color LEDs; 4096 step intensity control all colors; Luminaire color calibration for Target Colors
- **LOGARITHMIC INTENSITY RESPONSE**
- **SUPERIOR LOW LIGHT LEVEL TRANSITION**

## NEW TRIM FORM FACTOR

- **LIGHTER THAN OEM FLUORESCENT LIGHTING SYSTEM**  
20% lighter than Airbus Enhanced; 26% lighter than Classic system
- **1-FOR-1 REPLACEMENT**  
Mood lighting luminaires replace OEM units on a 1-for-1 basis, connecting to existing aircraft power connectors
- **NEW TRIM FORM FACTOR**  
30% profile reduction from previous system
- **NEW MOUNTING SYSTEM**  
New clip-in mounting system with angular adjustment
- **USES EXISTING OEM LUMINAIRE MOUNTING POINTS**

## BRUCE MOOD LIGHTING STCs

Aircraft	Agencies	STC Number
A318 Series, A319 Series, A320 Series, A321 Series	FAA ODA, EASA	STO3198NY
A330-200 Series, A330-300 Series	FAA ODA, EASA	STO3171NY
A340-300	FAA ODA, EASA	STO3419NY
737-600, -700, -800, -900, & 900ER Series	FAA ODA, EASA, Transport Canada	STO3168NY
747-400 Series	FAA, EASA Transport Canada	STO2220SE
757-200 Series	FAA ODA, EASA	STO3196NY
767-300 Series	Transport Canada	STO062DE
767-300, -400 Series	FAA ODA, EASA	STO3189NY
777-200 Series	FAA STC	STO3435NY

## BACKED BY BRUCE EXPERIENCE

For more than 15 years, Bruce Aerospace has been developing all-LED mood lighting systems for commercial aircraft. Not only do we have product engineering experience, continuing to bring the latest LED technology to the marketplace, we also have the experience to install and customize large-scale mood lighting installations. We provide

