

LED Cabin Lighting

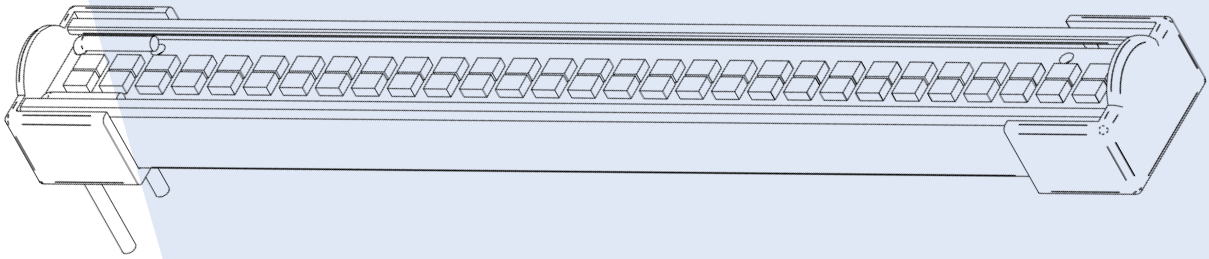
LED Upwash/Downwash Lighting Systems

Traditional aircraft cabin lighting systems use cold cathode lighting elements, similar to those found in neon signs. These systems suffer from a variety of problems including poor reliability, durability, and potential safety hazards. The fragile tubes are easily broken. Additionally, the high voltage inverters and the electrical discharge within the cold cathode tubes generate significant electrical noise which may interfere with other aircraft systems.

Now there is a better way. Heads Up Technologies provides Upwash/Downwash lighting elements based on rugged LED technology. These light-weight, low-voltage units deliver true color over a complete range of dimming. Our proven technology has been chosen by major airframe manufacturers to supply production contracts. You can count on Heads Up to meet your lighting needs.



HEADS UP TECHNOLOGIES



Lighting Specifications*

What makes Heads Up's LED upwash/downwash lighting such a great choice?

Next-Generation LEDs.

LED lighting systems are only as good as the LEDs themselves. You can count on Heads Up to work with leading LED manufacturers to bring you the latest LED technology, often before its available in the general marketplace. Only the brightest, whitest, most efficient, coolest-running LEDs make the cut.

Rugged Design.

Our patented ThermalChannel™ design delivers. Excellent mechanical stability and rigidity means simplified mounting and installation. The integral heat sink provides excellent thermal management over all cabin temperatures. Built tough to make aircraft interior maintenance faster and easier.

Wide Range of Color Temperatures.

Heads Up can provide a wide range of color temperatures, from the warmest to the coolest-whites. We can even color match your samples of cold cathode lighting. Consistent colors to please the most discriminating interior designer!

Turn Key Solutions.

Give our engineers the specifications of your cold-cathode lighting system and we can provide a complete LED-based cabin lighting solution including lighting elements, mounting brackets, power supplies, and connectors. We can even provide accent and cabinet lights. All color corrected to your specifications. Stepping up to LED technology is easier than you think!

Production Ready.

Heads Up isn't promising performance in the future. Our LED lights are ready today! Designed to meet the environmental demands of aircraft cabin interiors. Tested to DO160D and selected by major OEM/Airframe manufacturers for production, we can deliver!

The Bright Choice.

Got the cold-cathode blues? Switch to Heads Up's LED Upwash/Downwash lighting and put those blues behind you. The latest LED technology. The best designs. Contact Heads Up at (972) 980-4890 or at www.heads-up.com to learn what great LED lighting can do for you. OEM inquiries welcome.

Optical Characteristics

- Illuminance	Contact Factory
- Standard Color Temperature	4200K (Warm Light)
- Color Temperature Range	Contact Factory
- Dimming Range	0 - Max Bright (discrete)

Electrical

- Nominal Input Voltage	28 VDC
- Input Current (Max Brightness)	0.27 Amp/foot
- Lighting elements per controller	50 feet (MAX)
- Std. Number of Dimming Steps	15
- Max. Number of Dimming Steps	256
- Reverse Polarity Protection	Yes

Physical

Lighting Elements	
- Maximum Length	36" (91.44cm)
- Available Lengths (single inch increments)	9" - 36" (22.86cm - 91.44cm)
- Cross Section	0.63" x 0.46" (1.60cm x 1.17cm)
- Weight	0.18 lbs./ft
Lighting Controller	
- Height	1.3" (3.30cm)
- Width	4.0" (10.16cm)
- Depth	5.5" (13.97cm)
- Weight	0.53 lbs. (240 grams)

Environmental

- Storage Temperature	-67F to +185F (-55C to +85C)
- Operating Temperature	+5F to +158F (-15C to +70C)

Testing/Certification

- Hardware - Environmental	14 CFR PART 21
- Software	RTCA DO-160D
	N/A

* Specifications subject to change without notice. Please contact factory for latest specifications.



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