



LED

Accent Lights

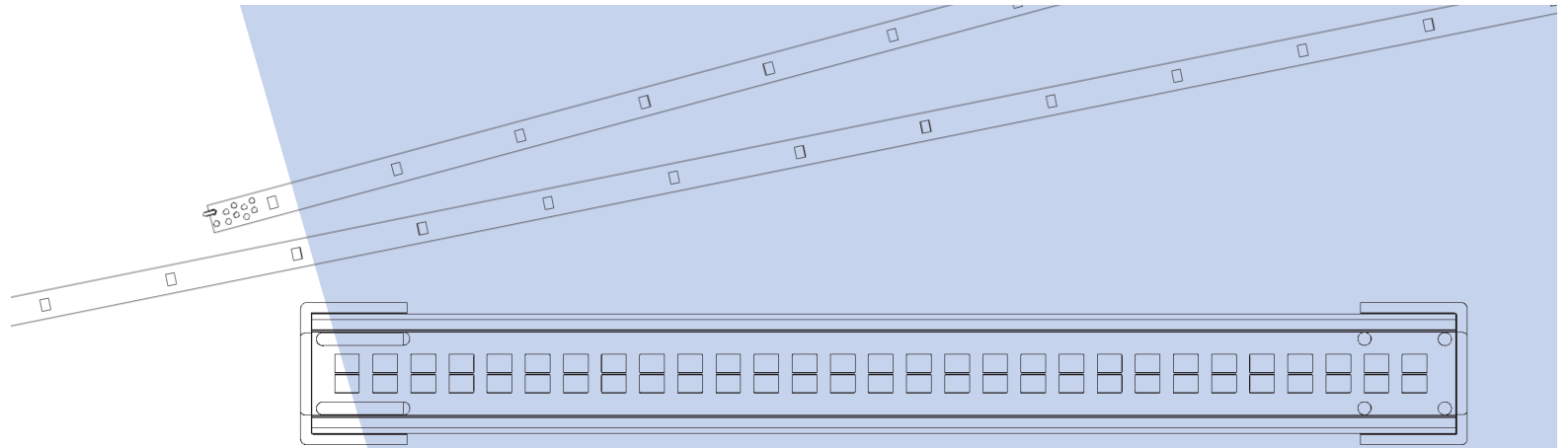
LED Cabin Lighting Systems

Using multiple lighting suppliers to solve your cabin lighting needs can create problems: color temperatures and brightness levels from different suppliers don't match; multiple power supply, wiring requirements, and unique mounting hardware increase complexity; and spares provisioning costs can rise. Not to mention the cost of coordinating multiple suppliers.

Heads Up Technologies can help. We provide a complete range of lighting solutions from aisle lighting to work surface lights based on rugged LED technology. These light-weight, low-voltage units deliver true color over a complete range of dimming. Proven technology chosen by major airframe manufacturers



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 patent-pending ThermoChannel™ 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. Enough 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 design. The only LED upwash/downwash lights selected for use on production aircraft. 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**	43 lux
- Standard Color Temperature	4500K
- 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" (91.44 cm)
- Available Lengths	1" - 36" (2.54cm - 91.44 cm)
- Cross Section	0.63" x 0.46" (1.60cm x 1.17cm)
- Weight	0.155 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 +176F (-55C to +80C)
- Operating Temperature	-40F to +158F (-40C to +70C)

Testing/Certification

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

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

**Incident illuminance measurement of 1m upwash element at 1m distance.



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