



# IDD AEROSPACE

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## **Universal Display and IDD Aerospace/Zodiac Lighting Solutions Exhibit an OLED Lighting Prototype for Aircraft Interiors**

**EWING, N.J.—February 4, 2014—**[Universal Display Corporation](#) (Nasdaq: OLED), enabling energy-efficient displays and lighting with its [UniversalPHOLED](#)<sup>®</sup> technology and materials, today announced it exhibited with partner [IDD Aerospace/Zodiac Lighting Solutions](#) a white OLED lighting prototype for aircraft interiors at the U.S. Department of Energy’s (DOE) eleventh annual [Solid-State Lighting \(SSL\) R&D Workshop](#) in Tampa, FL. The workshop took place January 28–30, 2014.

In June 2013, Universal Display was awarded a \$225,000 Small Business Innovation Research (SBIR) Phase I program from the DOE. Under the program, titled “Novel Energy-Saving Phosphorescent OLED Lighting Products,” Universal Display partnered with and subcontracted IDD Aerospace/Zodiac Lighting Solutions to evaluate and demonstrate the potential for energy-efficient and cost-effective white OLED lighting panels for aircraft interiors.

The shelf utility OLED prototype displayed at DOE’s R&D Workshop demonstrated a very slim and energy efficient lighting solution for aircraft interiors. The companies believe that the data generated by developing this shelf utility light may be applied to larger-scale OLED lighting aircraft projects, including cabin applications for interior furniture, galley, interior structure enhancements, as well as other potential adoptions in cabin accent, task, ceiling and sidewall lighting, and sign backlighting.



UDC/IDD OLED Lighting Prototype

Credit: Akoya

“We are looking forward to adapting OLEDs into the aircraft environment as an innovative and welcome change in aviation. Our lighting enhances our customers’ experience and modifies how we think about lighting and what it can provide. It is exciting to be working on the first prototype for aircraft interiors, and we are looking forward to continuing our partnership with UDC,” said Beth DeYoung, General Manager, IDD Aerospace/Zodiac Lighting Solutions.

“We are excited to have showcased this energy-saving shelf utility OLED lighting prototype for aircraft interiors, which is a result of our collaboration with IDD Aerospace/Zodiac Lighting Solutions,” said Steven V. Abramson, President and Chief Executive Officer of Universal Display. “OLED lighting offers several significant advantages over current fluorescent, incandescent and LED lighting technologies, from reducing an aircraft’s carbon footprint, lowering fuel consumption to opening up the design restrictions of current lighting solutions. Universal Display is focused on developing and furthering energy efficient, thin, lightweight OLED lighting solutions for this market, and we believe this prototype demonstrates the

potential for high-efficiency, high-performance PHOLED lighting panels in aircraft utility lighting applications.”

The DOE has made a long-term commitment to the development and introduction of energy-efficient, solid-state white lighting. Universal Display is a recognized leader in OLED technologies, and its UniversalPHOLED technology and materials have been essential to demonstrating high performance white OLED lighting panels that meet the DOE’s solid-state lighting targets. Additionally, Universal Display is at the forefront of developing complementary OLED technologies, including light extraction, thin-film encapsulation, and flexible OLED technologies.

To see how Universal Display is changing the face of the display and lighting industries with its UniversalPHOLED<sup>®</sup>, white OLED, and flexible OLED technologies, please visit the company’s website at [www.udcoled.com](http://www.udcoled.com).

### **About IDD Aerospace/Zodiac Lighting Solutions**

IDD Aerospace/Zodiac Lighting Solutions, is part of Zodiac Aerospace, Aircraft Systems Group. The company headquarters is in Redmond, Washington, USA and is a leading provider of flight deck and interior lighting solutions to aerospace customers worldwide. Zodiac Aerospace is a world leader in aerospace equipment and systems to regional, commercial and business aircraft, helicopters and space. Zodiac Aerospace employs 28,000 employees worldwide and achieved a turnover of € 3.4 billion in 2011/2012 through its five divisions: Zodiac Cabin & Structures, Zodiac Seats, Zodiac Galleys & Equipment, Zodiac Aircraft Systems, Zodiac Aerosafety, supplemented by the dedicated after-sales business of Zodiac Services. More information about Zodiac Aerospace can be found at [www.Zodiacaerospace.com](http://www.Zodiacaerospace.com).

### **About Universal Display Corporation**

Universal Display Corporation (Nasdaq: OLED) is a leader in developing and delivering state-of-the-art, organic light emitting diode (OLED) technologies, materials and services to the display and lighting industries. Founded in 1994, the company currently owns or has exclusive, co-exclusive or sole license rights with respect to more than 3,300 issued and pending patents worldwide. Universal Display licenses its proprietary technologies, including its breakthrough high-efficiency UniversalPHOLED<sup>®</sup> phosphorescent OLED technology, that can enable the development of low power and eco-friendly displays and white lighting. The company also develops and offers high-quality, state-of-the-art UniversalPHOLED materials that are recognized as key ingredients in the fabrication of OLEDs with peak performance. In addition, Universal Display delivers innovative and customized solutions to its clients and partners through technology transfer, collaborative technology development and on-site training.

Based in Ewing, New Jersey, with international offices in Ireland, South Korea, Hong Kong, Japan and Taiwan, Universal Display works and partners with a network of world-class organizations, including Princeton University, the University of Southern California, the University of Michigan, and PPG Industries, Inc. The company has also established relationships

with companies such as AU Optronics Corporation, DuPont Displays, Inc., Innolux Corporation, Konica Minolta Technology Center, Inc., LG Display Co., Ltd., Lumiotech, Inc., Moser Baer Technologies Inc., Panasonic Idemitsu OLED Lighting Co., Pioneer Corporation, Samsung Display Corporation, Seiko Epson Corporation, Sony Corporation, Showa Denko K.K., and Tohoku Pioneer Corporation. To learn more about Universal Display, please visit [www.udcoled.com](http://www.udcoled.com).

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