

PROJECT SPOTLIGHT

PROJECT: **Branksome Hall**

Branksome Hall is a leading International Baccalaureate (IB) World School

<http://www.branksome.on.ca/news/Pages/Article.aspx?ArticleID=369>
http://www.novusenv.com/ft_project/branksome-hall-athletics-and-wellness-centre/

PRODUCTS: Grande [RM4D](#) & [RM4DOD](#)

AGENT: [STL Lighting Group](#)

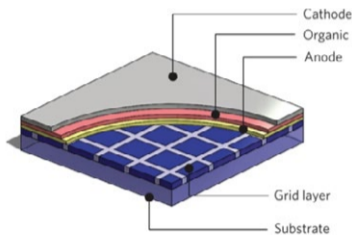


NEWS > RESEARCH

Enhanced light extraction from organic LED using a sub-anode grid

Electrophosphorescent organic light-emitting devices (PHOLEDs) can yield 100% internal quantum efficiency. This provides an external quantum efficiency of 20% without outcoupling enhancement. The remaining emitted photons are trapped in the substrate due to total

internal reflection at the glass-air interface, are guided within the organic material layers and the transparent anode because of their high refractive indices compared to glass, and are dissipated at the organic-cathode interface by exciting surface plasmon modes. Numerous methods have been explored to solve the problem of inefficient optical extraction due to total internal reflection at various interfaces. Read the [full report](#).

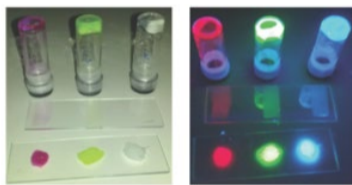


NEWS > RESEARCH

Bioinspired Hybrid White Light-Emitting Diodes

A recent article published in Advanced Materials showed the first examples of bio-hybrid LEDs (bio-HLED) featuring a protein-based cascade

coating. A new strategy has been developed to stabilize proteins in rubber-like material, which produces bio-HLEDs with less than 10% loss in luminous efficiency over 100 hours. HLEDs can combine the excellent lighting performance and the low-cost production of inorganic LEDs and ease of color tunability of the organic compounds used in OLEDs. Read the [article](#).



NEWS > INDUSTRY

SSL R&D Workshop

The Department of Energy's (DOE) SSL R&D Workshop blends discussions on SSL research, product development, and manufacturing into one meeting. Attendees from all aspects of the supply chain share the latest on SSL advances and issues, dissect complex science and technology challenges, and examine new ways to improve manufacturing processes. Input gathered from attendees guides updates to the DOE SSL R&D Plan and DOE SSL funding solicitations. Additional details to be posted online soon.

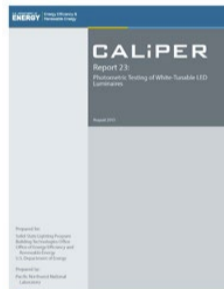
When: February 2 - 4, 2016

NEWS > INDUSTRY

DOE publishes CALiPER report on the photometric testing of White-Tunable LED Luminaires

The U.S. Department of Energy's CALiPER program has released Report 23: Photometric Testing of White-Tunable LED Luminaires, which is the first in a planned series of investigations on [color-tunable LED luminaires](#). The main goal of the new study was to understand the amount of testing required to characterize a white-tunable LED lighting product.

[Download](#) the full report.

**Metalumen's New & Upcoming products:**

UPCOMING EVENTS

DECEMBER

[IDEX](#) | Dec. 2-3 | Toronto, Ontario | Booth # 6213

APRIL 2016

[LFI 2016](#) | Apr. 26-28 | San Diego, California | Booth # 6723

EDUCATION > AIA/CQLP/IDCEC

Metalumen is proud to be CEU accredited!

We are now an accredited provider for the American Institute of Architects (AIA), Interior Design Continuing Education Council (IDCEC) and National Council on Qualifications for the Lighting Professions (NCQLP) for continuing education. All our lighting focused seminars demonstrate best practices in lighting application, strategies in energy conservation, and human centric drivers for wellbeing per application and maintenance factors. Each seminar is 1 to 2 hours in length and qualifies for 0.2 to 2.0 CEU, LEU and LU credits.

