Lighting Analysts
illumination engineering software

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Software Product Announcement

Lighting Analysts, Inc. releases AGi32 version 18
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Lighting Analysts, Inc., a global leader in calculation and visualization software for the lighting professional, is proud to announce the release of version 18 of our industry standard calculation software, AGi32.

AGi32 version 18 builds on previously released features for the creation of automated output, includes several new object manipulation commands and introduces the calculation of Mesopic Luminance for roadways, a very hotly anticipated capability. Additionally, version 18 is now tightly integrated with our new annual daylight simulation tool *Licaso*®.

AGi32 version 18 introduces the concept of "Viewpoints" to the rendered output of the software. Viewpoints were previously introduced in AGi32 version 17 for the model portion of the software. Adding this capability to the render mode allows users to save as many different perspectives of the rendered model as they like and automatically assimilate them in the automated Page Builder output. In addition, each rendered viewpoint can have its own set of display parameters. "This is huge!", says Dave Speer, Lighting Analysts Director of Sales and Marketing. "Now users can easily reference an RGB rendering alongside a Pseudocolor rendering, and elect to incorporate an overlaid CAD model on either one. This offers enormous flexibility for presentations."

New Object manipulation commands such as Group, Scale (by axis) and Disable from Model Mode provide increased flexibility and speed of workflow for power-users. The new Group Object command allows random objects to be easily grouped for various operations. Groups can contain other groups and even imported entities. Ungrouping is a simple explode operation.

The lighting industry has been anticipating the incorporation of Mesopic principals into the calculation of pavement luminance for roadway applications since the initial release of IES document TM-12-12, "*Spectral Effects of Lighting on Visual Performance at Mesopic Lighting Levels*" which handles low speed exterior applications such as site lighting. With the announcement of support for higher speed roadway applications by the *International Commission on Illumination (CIE)* in Technical Note *TN-007:2017*,

Lighting Analysts is pleased to introduce the availability of this calculation in the updated CIE-140 roadway standard.

An updated release of the British and Australian/New Zealand roadway standards is also included with the ability to filter the calculation of Veiling Luminance (L_v) for foveal and off-axis sources. Both of these new roadway capabilities were recently added to AGi32 version 18.2, a free update for all version 18 users.

Lighting Analysts introduced our new annual daylight simulation tool *Licaso*® in June of 2017. AGi32 version 18 can serve as a modeling platform and launching site for annual simulations using Licaso. Licaso is revolutionary with calculation time for most simulations running in a matter of minutes, as compared to hours or days for the only competitive solution.

Licaso annual simulations are based on patented and patent-pending algorithms, and can be performed on real building geometry with thousands of windows, skylights or openings. The process utilizes site-specific TMY3 weather data with 4,380 hourly solutions to compute illuminance on as many target grids and grid points as required. The result is accurate daylight illuminance for every daylight hour of every day, for an entire year. From this information, a variety of daylight metrics such as Daylight Autonomy (several flavors), Annual Sunlight Exposure and Useful Daylight Illuminance can be produced. Rendered images, animations and complete graphical and textual reporting are provided. Please see our separate release regarding *Licaso*®.

A complete summary of AGi32 version 18 features can be found on our website (www.agi32.com), where prospective users can also download a free, unrestricted 30-day Trial version.

About Lighting Analysts, Inc.
Founded in 1984, Lighting Analysts, Inc. (**www.agi32.com**, **www.elumtools.com**
, **www.licaso.com**) is a world leader in lighting design software. Lighting Analysts, Inc. software systems are used by lighting industry professionals worldwide to aid in the conceptualization and design of lighting systems of almost any nature. Its **AGi32** lighting design and rendering software has won numerous industry accolades and awards.

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