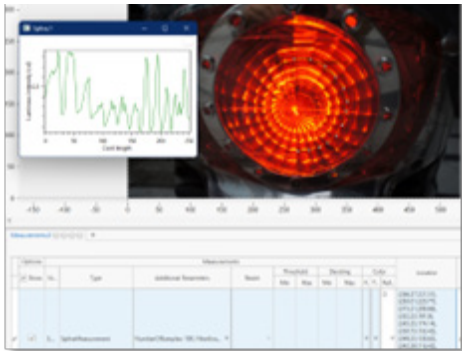


What's New in LucidShape Version 2024.09

Fast, Accurate Modeling and Analysis of Automotive Lighting Products



Advanced Analysis Enhancements

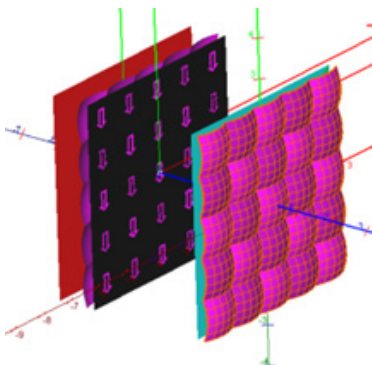
Upgrade your design process with LucidShape Advanced Analysis to simplify workflows and improve interactive design troubleshooting. Latest features include:

- Analyze and compare lit appearance using bitmap images.
- Adjust UV range, add gradients, and perform automatic headlamp aiming with new preprocessing options.
- Evaluate headlight beam position using an aiming wall.
- Calculate the centroid of light distribution with new measurement tools.

Multi Mask Sensor Tool

Projection systems like gobo and headlamp projectors require masks or shutters to create image patterns, which are complex to design. The Multi Mask Sensor tool automates this process by:

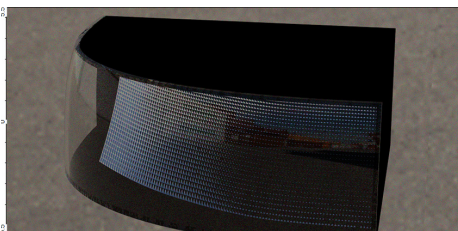
- Generating sensor arrays
- Running reverse simulations
- Accurately positioning isolines
- Exporting profiles for CAD surface creation



MacroFocal Enhancements

Automotive lighting designs are increasingly incorporating lenses with thousands of facets. The enhanced MacroFocal tools simplify managing these complex designs:

- CSV Configuration: Easily configure facets using a CSV file. Export settings from LucidShape, edit in a spreadsheet, and re-import for streamlined adjustments.
- Mini Pillows: Add micro-facets to each facet of your MacroFocal design with the expanded MacroFocal Reflector and Lens tools.
- Independent Updates: Recalculate individual facets instead of hundreds, accelerating your design process by allowing targeted changes.



What's New in LucidShape Version 2024.09



New Benchmarks

New and revised benchmark and regulation tools support advanced driving beam (ADB) design:

- US-NCAP Benchmark Tool
- FMVSS 108 ADB Tool
- Regulation Checker
- C-IASI Benchmark Tool
- C-NCAP Benchmark Tool

For more information, please contact Synopsys' Optical Solutions Group at (626) 795-9101, visit www.synopsys.com/optical-solutions/lucidshape.html, or send an e-mail to optics@synopsys.com.