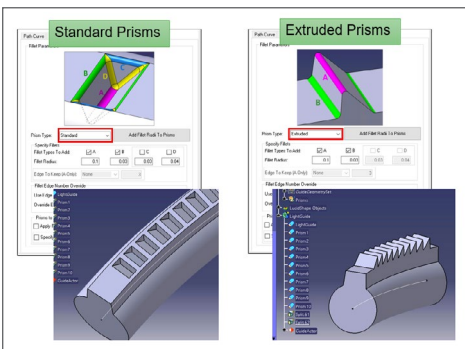
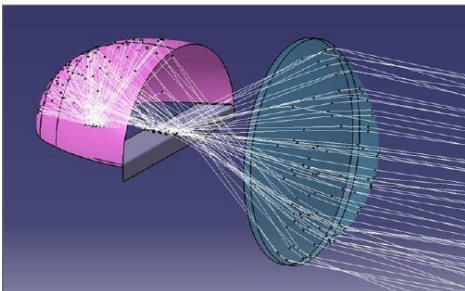
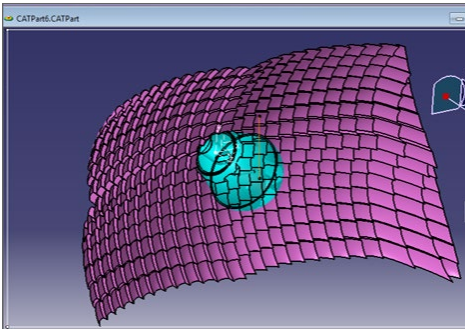


# LucidShape CAA V5 Based Version 2020.06 New Features



LucidShape CAA V5 Based offers the industry's only complete design and visualization workflow solution for automotive lighting design within the CATIA V5 environment. The product's fast, accurate modeling and analysis of part-level models and product-level assemblies have been enhanced with the following major new features.

## Powerful Design Tools

Geometry creation tools that give users the freedom to focus on overall design objectives rather than the implementation details of complex optics have always made LucidShape unique. These tools are now available to CATIA users in the new LucidShape CAA Design Module. Tools like MacroFocal design features help designers rapidly conceptualize and design freeform reflectors and lenses that meet photometric and aesthetic requirements for cutting-edge automotive lighting products.

## Stunning Photorealistic Renderings

Photorealistic visualization is used in the creative process to evaluate the aesthetics of a lighting design, and in the engineering process to evaluate optical feasibility based on uniformity, brightness, and manufacturability. The new LucidShape CAA Visualize Module generates stunning, physics-based photorealistic images. Features like the Environment Light Source and the Human Eye Vision Image tool augment the realism in a scene and enable designers to virtually evaluate how the human eye will perceive a headlight, tail light, or signal light.

## Ease of Use Improvements

Ease-of-use improvements in the LucidShape CAA Base Module include the CATIA Design Table feature that allows users to construct and simulate design variations quickly. It also streamlines the creation of multiple design forms for a product line.

## Improved Design-for-Manufacturability for Light Guides

The Light Guide Design Module provides designers with the capability to efficiently create light guides with fillets that conform to manufacturing constraints. Designers can create light guide designs faster, optimize light distributions and uniformity, and achieve better as-built performance.

For more information, please contact Synopsys' Optical Solutions Group at (626) 795-9101, visit [synopsys.com/optical-solutions/lucidshape/caa-v5-based.html](http://synopsys.com/optical-solutions/lucidshape/caa-v5-based.html), or send an e-mail to [optics@synopsys.com](mailto:optics@synopsys.com).