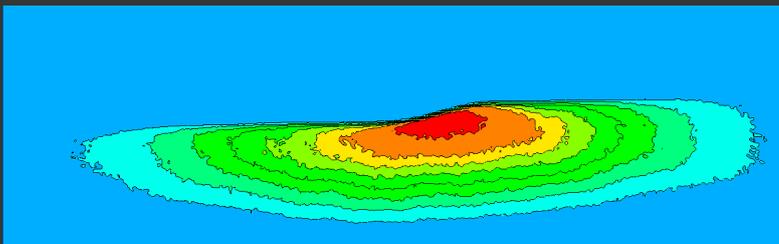


NEW in SPEOS CAA V5 Based : Optical Shape Design



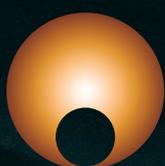
Automatically design optical components in CAD/PLM environment

As is the case for any industrial products, the design of optical and lighting systems has to be integrated in the Product Lifecycle Management to support mechanical design completion, security storage, concurrent engineering, versioning etc... However, lighting system design requires a dedicated set of specific functionalities in order to create optical shapes that achieve photometric performances and style requirements. Such capabilities are currently unavailable inside any CAD platform. **SPEOS CAA V5 Based - Optical Shape Design** completes the SPEOS simulation and analysis product line (Light Modeling, Visual Ergonomics and VRXperience) with **automatic geometry generation dedicated to optical and lighting system design within CATIA V5.**



Key benefits :

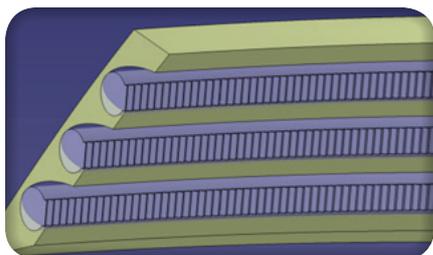
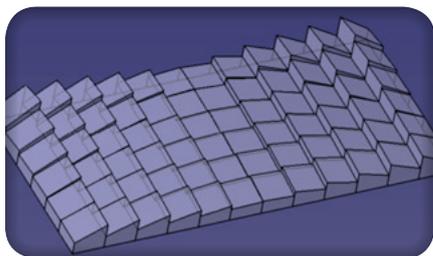
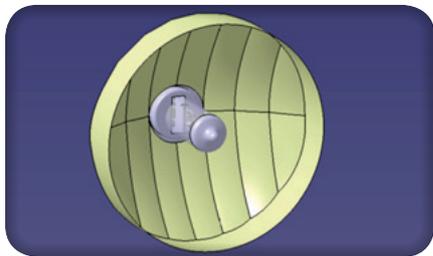
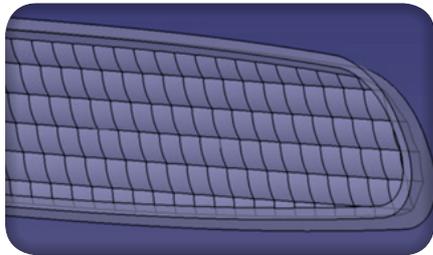
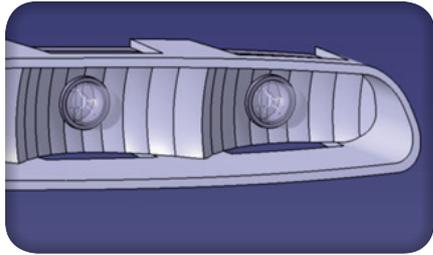
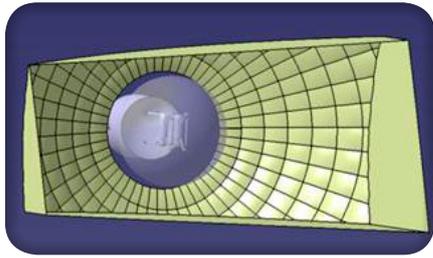
- ✓ Provides a unique solution for optical and lighting system design within CAD/PLM environment
- ✓ Supports the full design process from early conceptual phase up to production go
- ✓ Enables a greater number of lighting concepts and “what if” scenarios in a fraction of the time
- ✓ Shortens engineering development by increasing optical engineer productivity
- ✓ Short learning curve and non-expert usage
- ✓ Facilitates communication between customer and supplier by using the language of 3D



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NEW in SPEOS CAA V5 Based : Optical Shape Design



SPEOS OSD provides an intuitive and powerful suite of tools to create lighting components such as reflectors, lenses, light guides... from both mechanical and optical specifications. It complements CATIA V5 geometric workbenches with functionalities :

- ✓ To create innovative surfaces having specific optical behavior (sharp cutoff, aspheric, etc...)
- ✓ To automate design of complex components having many optical sub-elements (optical facets, pillows optics, stripes, prisms,...)

Being fully integrated into CATIA V5, **SPEOS OSD** avoids all data transfer tasks and the associated drawbacks (failures, loss of accuracy, time taken). Beyond this, it takes advantage of the standard capabilities of modern CAD tools such as :

- ✓ Feature associativity enabling a rapid propagation of design changes
- ✓ Capture of design intent limiting manual reworking during design iteration
- ✓ Solids management removing time-consuming trimming operation tasks

From the early conceptual phase, **SPEOS OSD** enables designers without advanced optical knowledge to quickly and easily investigate different style options even before the selection of a supplier :

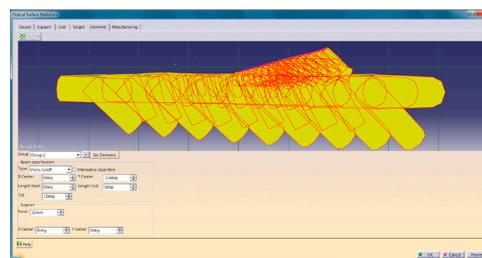
- ✓ Saving time and the cost of subcontracting multiple alternative studies
- ✓ Protecting intellectual property and know how
- ✓ Ensuring repeatability
- ✓ Allowing you to master the lighting signature of your products

SPEOS OSD is also fully interoperable with the SPEOS product suite :

- ✓ SPEOS-Light Modeling for photometric performances analysis
- ✓ SPEOS-Visual Ergonomics for lit/unlit appearance simulation
- ✓ VRXperience for virtual assessment of headlamps

providing both :

- ✓ Dedicated results to optimize the optical performance
- ✓ Aesthetic simulation results to support style decisions



Get a demo



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