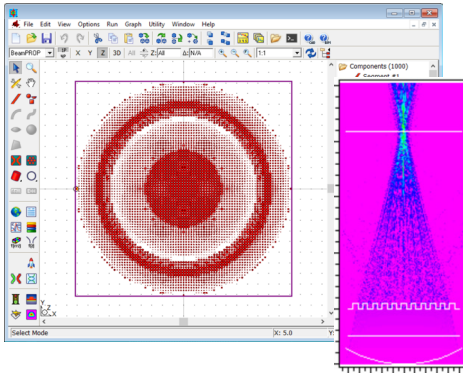


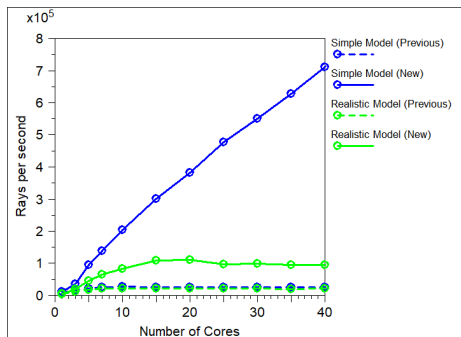
What's New in RSoft Photonic Device Tools

The RSoft Photonic Device Tools provide the industry's largest portfolio of simulators for passive and active devices in optical communications and optoelectronics. Following are the latest enhancements.



MetaOpt Designer Improvements

- Ability to load refractive lenses from CODE V so that hybrid optical systems combining metalenses and refractive lenses can be easily designed and optimized
- Up to 20x speed improvement
- Ability to edit material files directly, generate MTF and far-field images, and use MTF as an optimization target
- Removed the memory bottleneck when generating large GDS files for fabrication by reducing RAM usage by 500x
- Direct access to RSoft Material Library

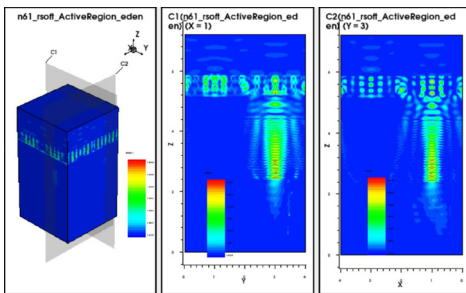


Bidirectional Scattering Distribution Function (BSDF)

- Improved single- and multi-thread performance for the RSoft BSDF user-defined optical properties (UDOP) within LightTools
- Processing speed improved by up to 2x
- Faster BSDF file generation with DiffractMOD RCWA
- Parameter scans, including BSDF file generation, have improved stability

Updated TCAD Interface

- Support for the TDR format used by Sentaurus 2022.12 for optical simulations
- New RSoft TCAD Wizard to assist with design file and simulation script creation
- TCAD material files can be directly used in RSoft simulations



Python 3 Support

- Python APIs help construct CAD files for complex structures, such as metalenses and grating couplers
- Python 3 support now available for layout and data manipulation APIs