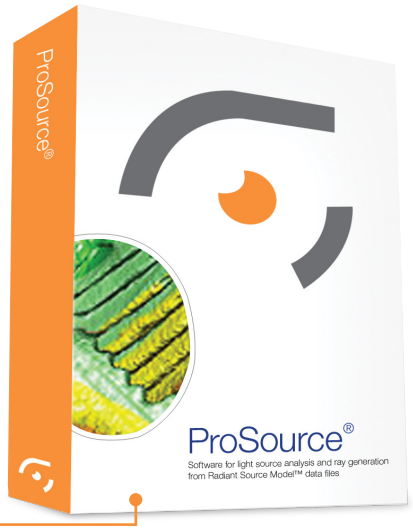
RADIANT
VISION SYSTEMS

ProSource® Software



Highlights

- Conduct detailed analysis of luminance and color as a function of angle for light sources and lighting systems
- Produce highly accurate spectral and photopic ray sets that minimize simulation time
- Create more accurate simulations with significantly smaller file sizes with new RSMx compressed file format

Applications

- Light source design and performance analysis
- Lighting system design and performance analysis
- Generate photopic and spectral ray sets for export to optical design software such as OpticStudio, Zemax, ASAP, LightTools, TracePro, and more
- Generate IES files, EULUMDAT files, and UGR values

Light Source Analysis and Ray Set Generation from Radiant Source Model™ Files

ProSource® enables optical system designers to fully exploit Radiant Source Model® files (RSMs) of light sources and lighting systems. RSMs are the most accurate method for describing the near-field output of real light sources in optical and illumination design software because they contain full measurement information, including luminance images, from all viewing angles for the light source or lighting system. This provides full flexibility in analysis and in ray set generation.

ProSource features include:

- Create photopic ray sets for all major optical and illumination design software systems.
- Generation of advanced spectral ray sets, supporting detailed color simulations which are critical for sources whose color varies as a function of angle.
- Support for the new compressed Radiant Source Model (RSMx) format, which reduces RSM files sizes to less than that of a 5M ray file—and making it straightforward to use and share detailed source data
- Generation of IES and EULUMDAT files for illumination design.
- Computation of Unified Glare Rating (UGR).

ProSource allows source data and ray sets to be exported with the same unbeatable measurement accuracy to other optical and illumination system design software packages such as ASAP®, FRED®, LightTools®, LucidShape®, Photopia™, IES TM-25, Opticad®, OSLO®, SimuLux®, SPEOS®, TracePro®, and OpticStudio™ (ZEMAX), as well as general file formats.

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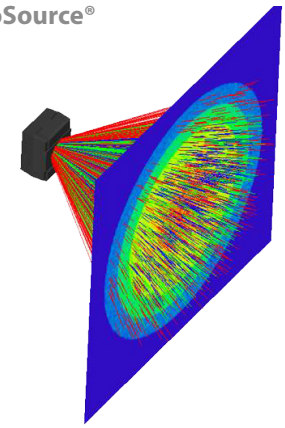
ProSource®



Key Features

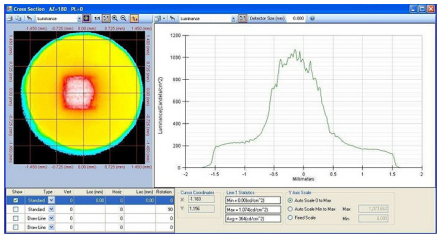
- Extensive analysis tools, including 2D and 3D data plots, cross-sections, and more
- Photopic and spectral ray set generation for up to two billion rays
- Support for both legacy and compressed RSM file formats
- Type-C IES and EULUMDAT file export

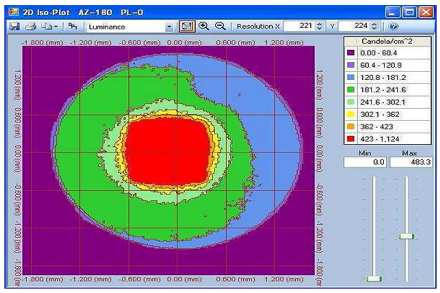
Capabilities

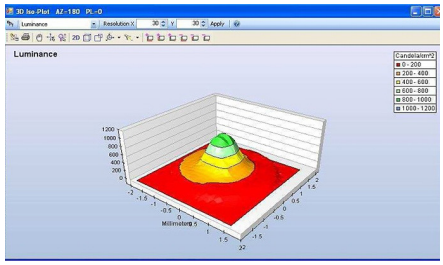
Ray Generation
Exported photopic ray sets are compatible with many illumination design software packages including ASAP®, FRED®, LightTools®, LucidShape®, Photopia™, IES TM-25, Opticad®, OSLO®, SimuLux®, SPEOS®, TracePro®, and OpticStudio™ (ZEMAX), general unix binary format and ASCII format, among others.
Full user control over the number of rays, angular range of rays, and total luminous flux of the ray set and ray origin.
Rays can be generated on the surface of a sphere, cylinder, or plane as well as the nearest distance to z-axis location.
Photopic, color (RGB), and spectral ray sets are supported with up to two billion rays generated. Spectral ray sets are compatible with the latest releases of many optical design software packages; check with optical design software providers for detail.

IES File Generation
IES and EULUMDAT files generated for general lighting applications.
Unified Glare Rating (UGR) computation.

Light Source and Lighting System Analysis
Determine CIE color coordinates, (CIE xy or CIE u'v'), tristimulus values, correlated color temperature (CCT), and luminance values for any point or user-defined area in the source.
View animated images of a light source to intuitively understand its light output characteristics.
View alignment images of a light source to determine the origin of the global coordinate system in relationship to specific physical features of the light source.
View 2D and 3D data plots of light source output.







System Recommendations

- Windows® 10, 64 bit
- 16-32 GB RAM
- Additional system requirements vary by camera. See hardware specification sheet for more information.

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