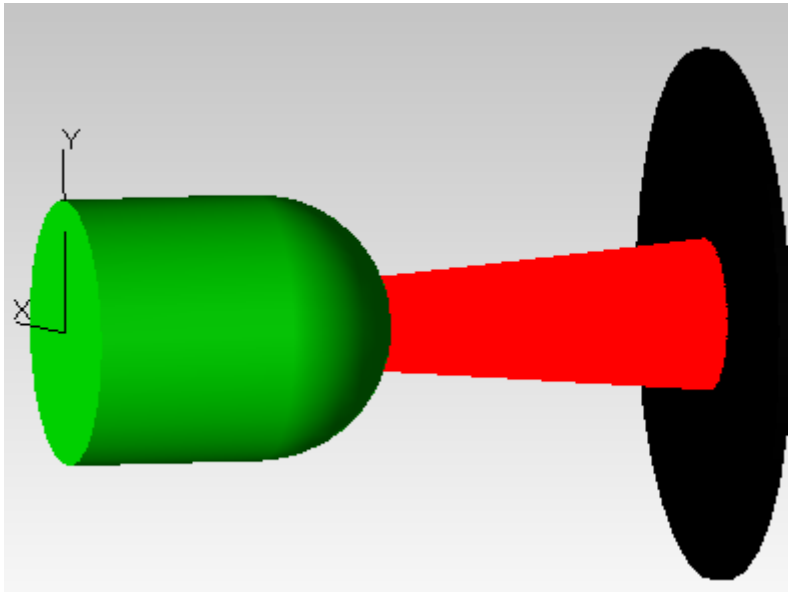
Lambda Research Corporation

LED MODELING



LED MODELLING

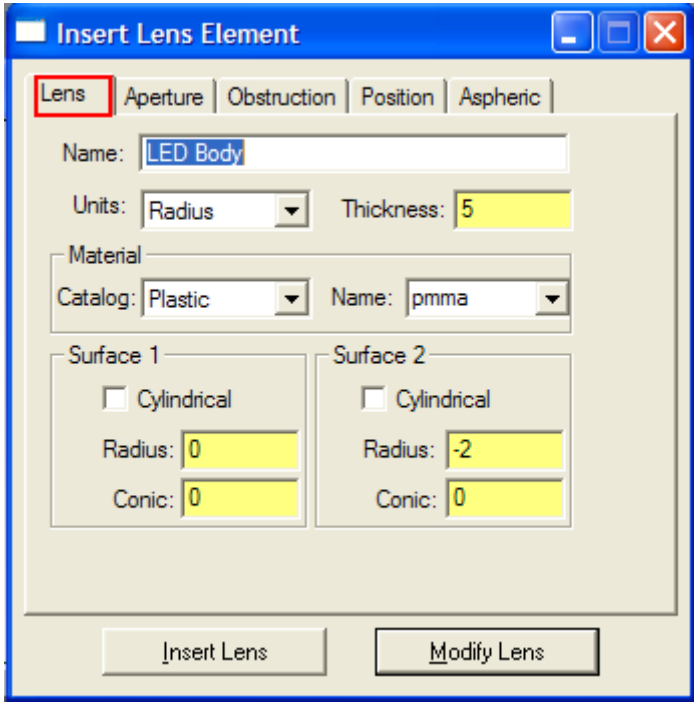
LED Modeling consist of following object :

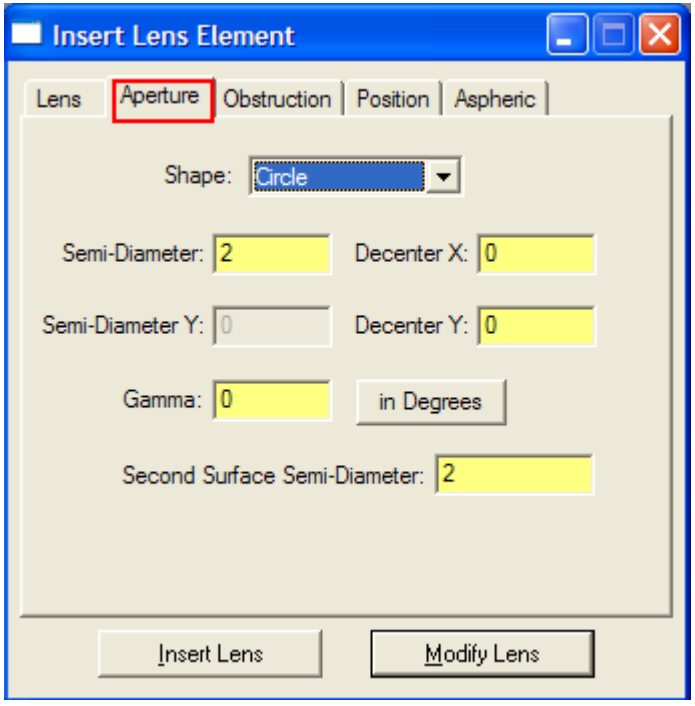
- Source
- Reflector
- LED Body
- Detector

LED Body

LED Body consist of following properties :

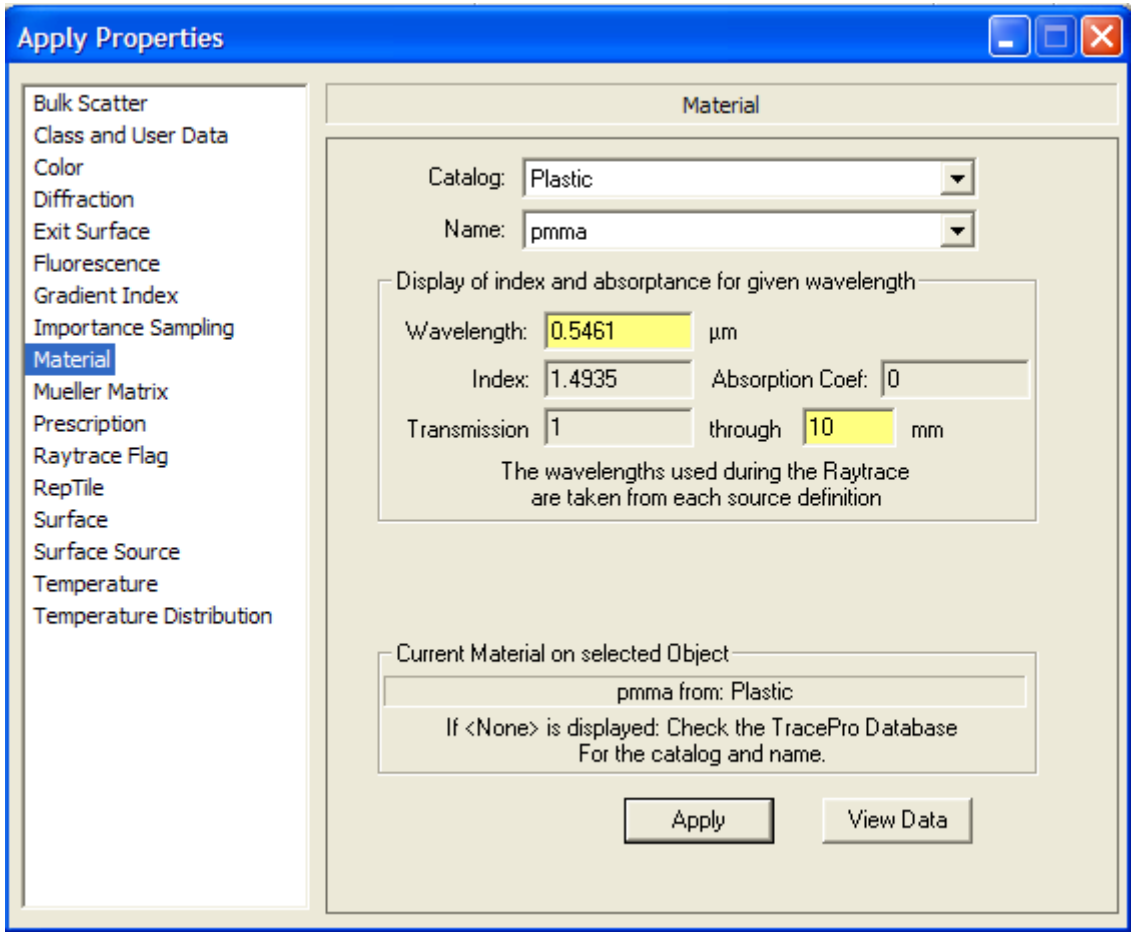
- Plastic Material (PMMA, Acrylic, Poly Carbonate and many others)
- Define Lens Element : Insert > Lens Element



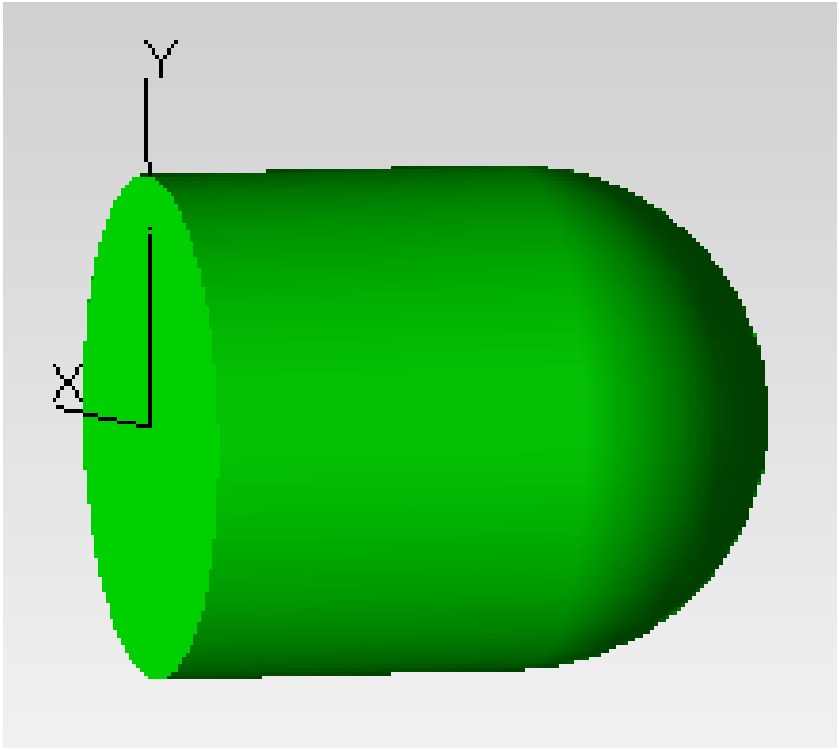


LED Body Material

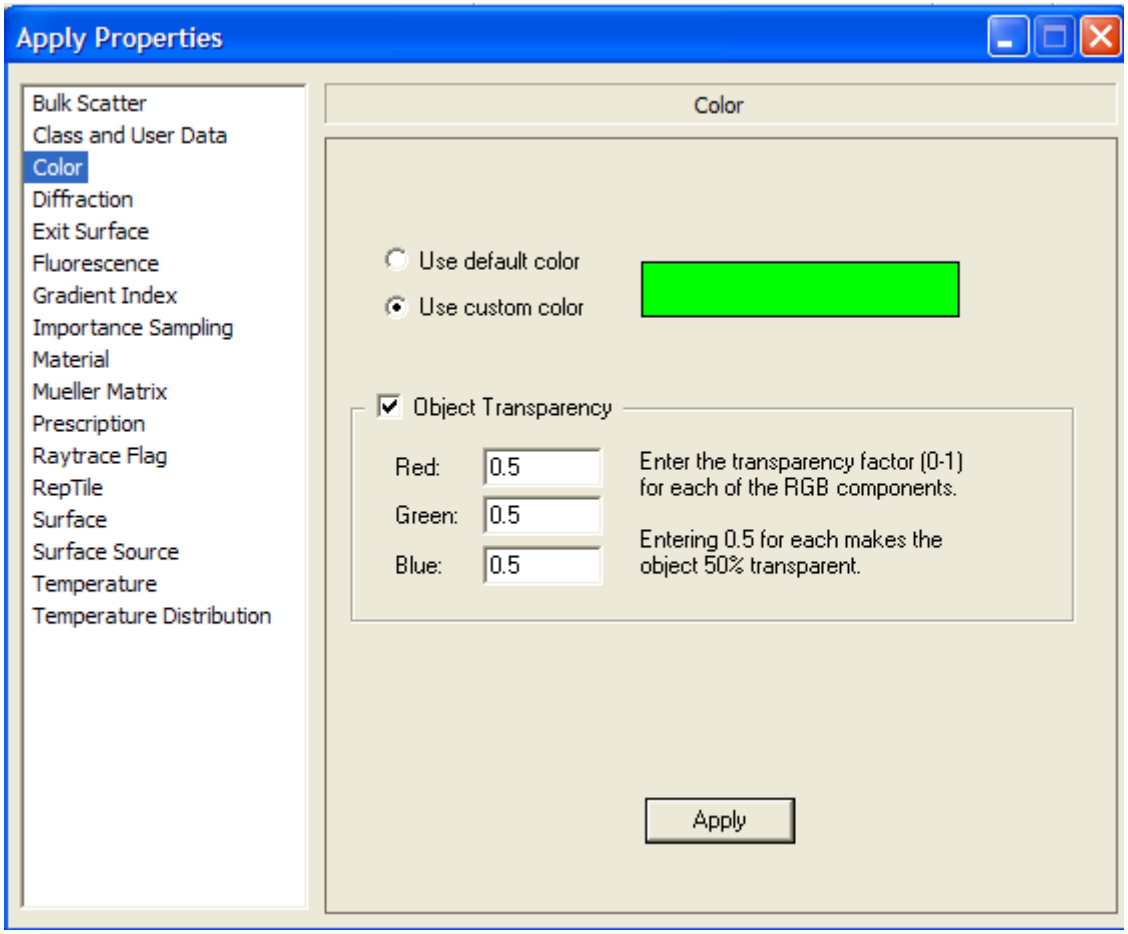
- Material Properties - PMMA



LED Body

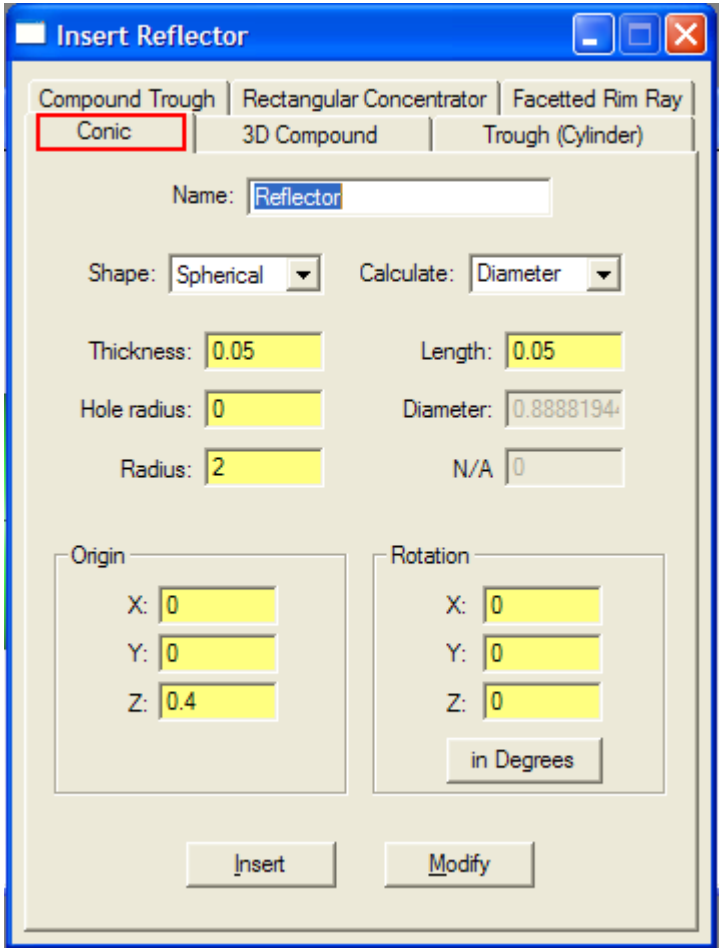


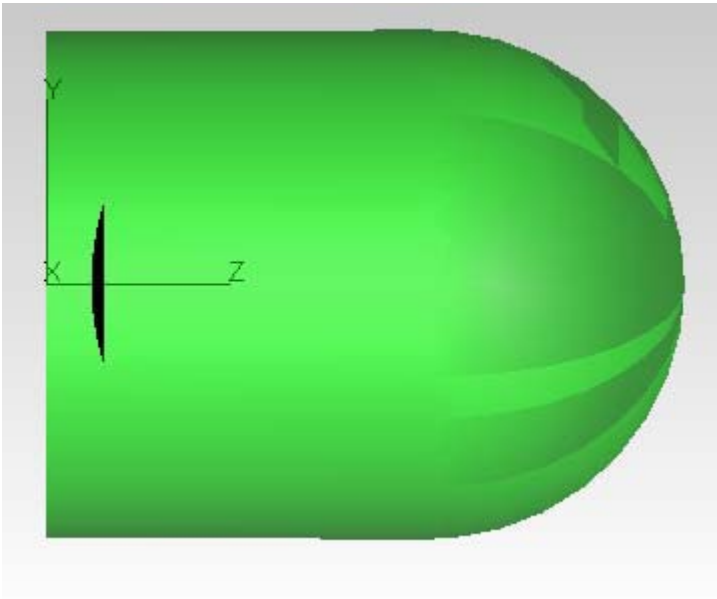
LED Body Transparent



Reflector

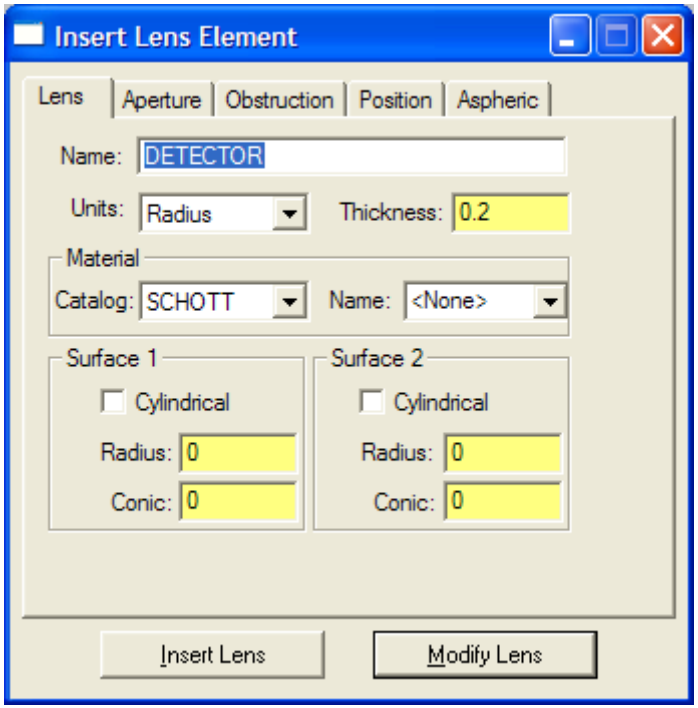
Reflector can be define by using conic reflector as below :

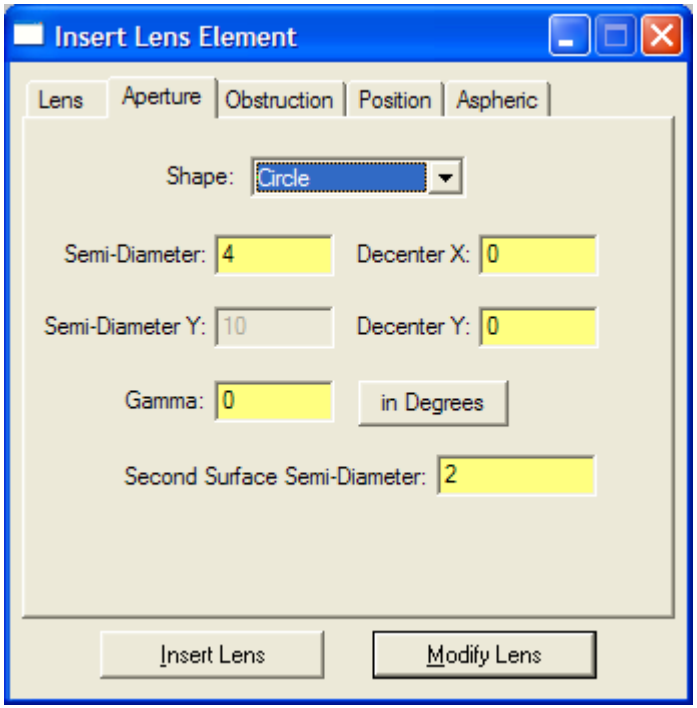




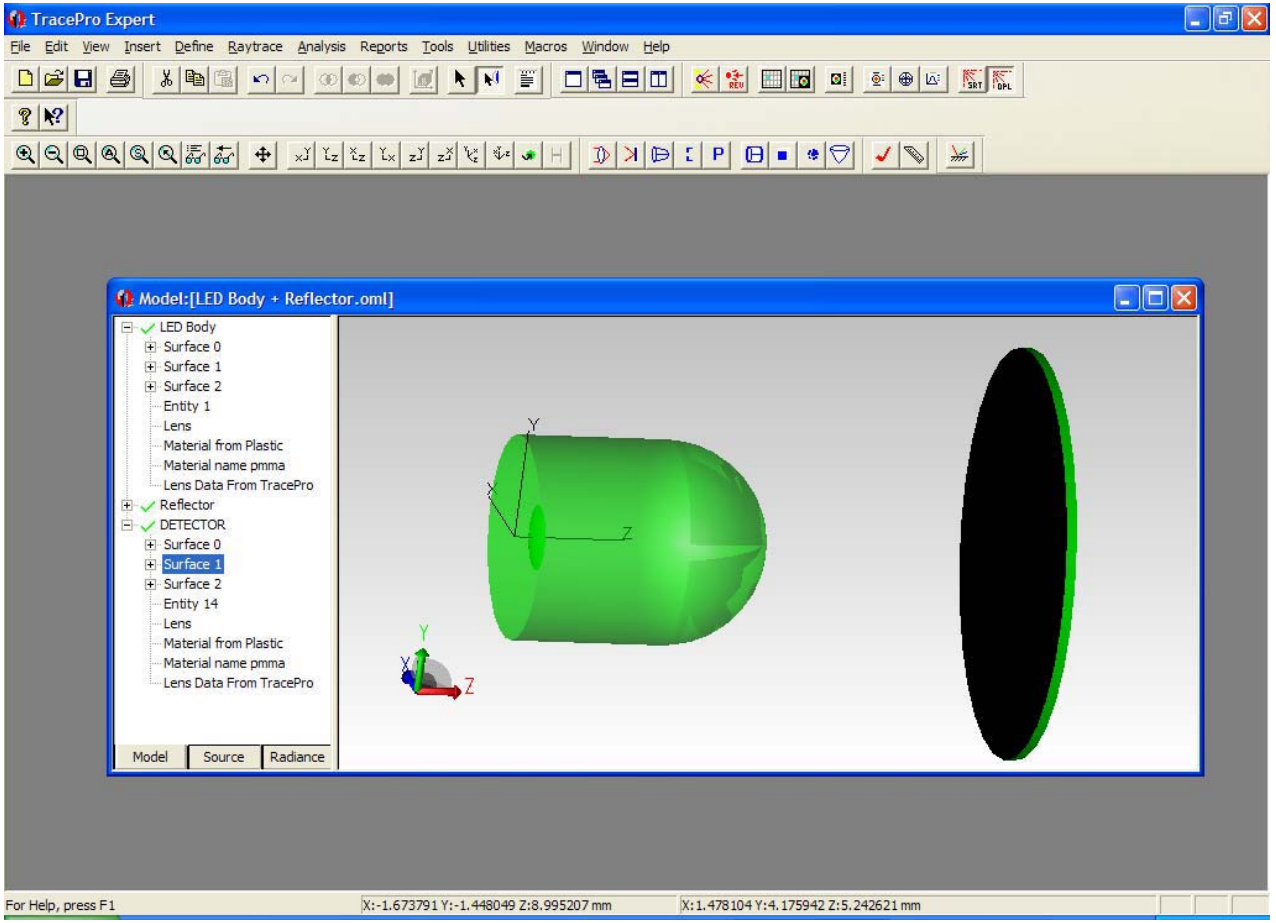
Detector

Define Properties : Perfect Absorber for Surface 1.



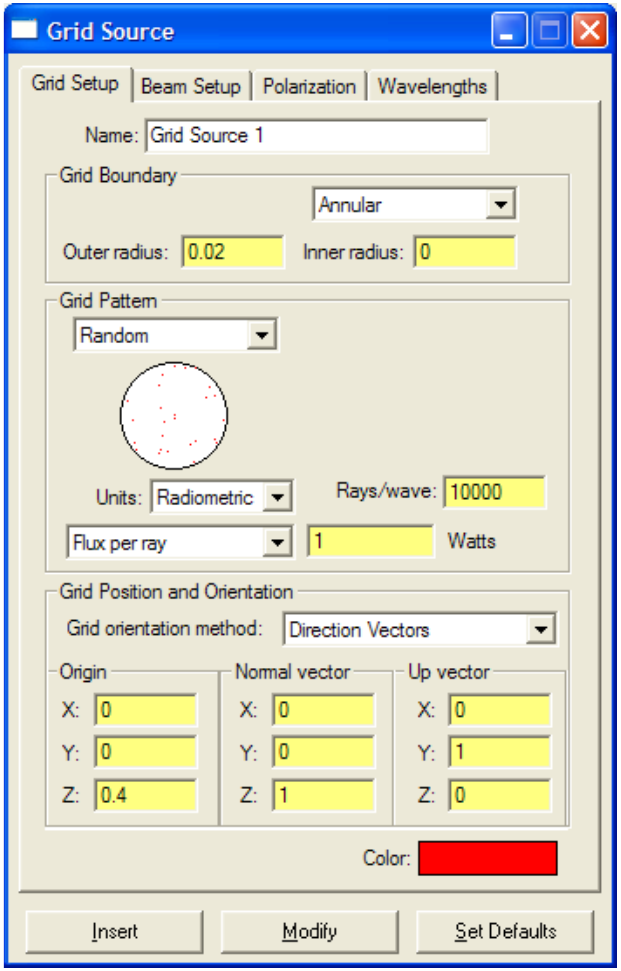


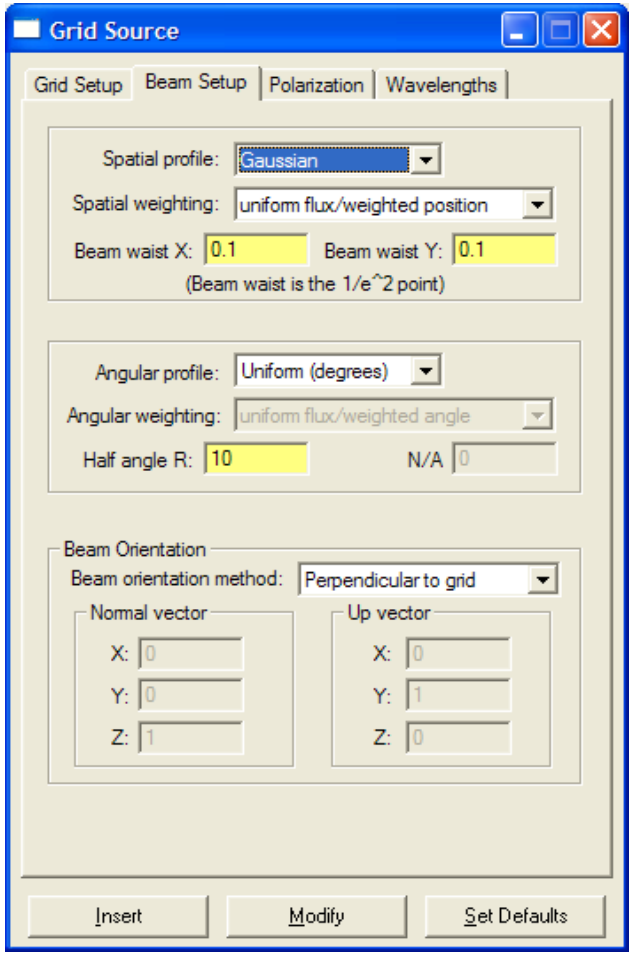
LED Body + Reflector + Detector

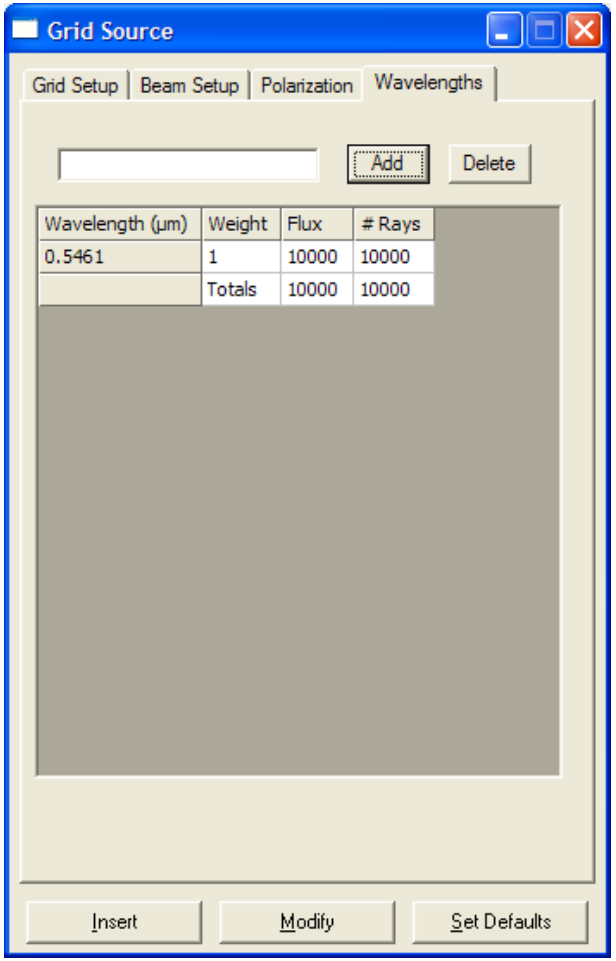


Source

- GRID SOURCE







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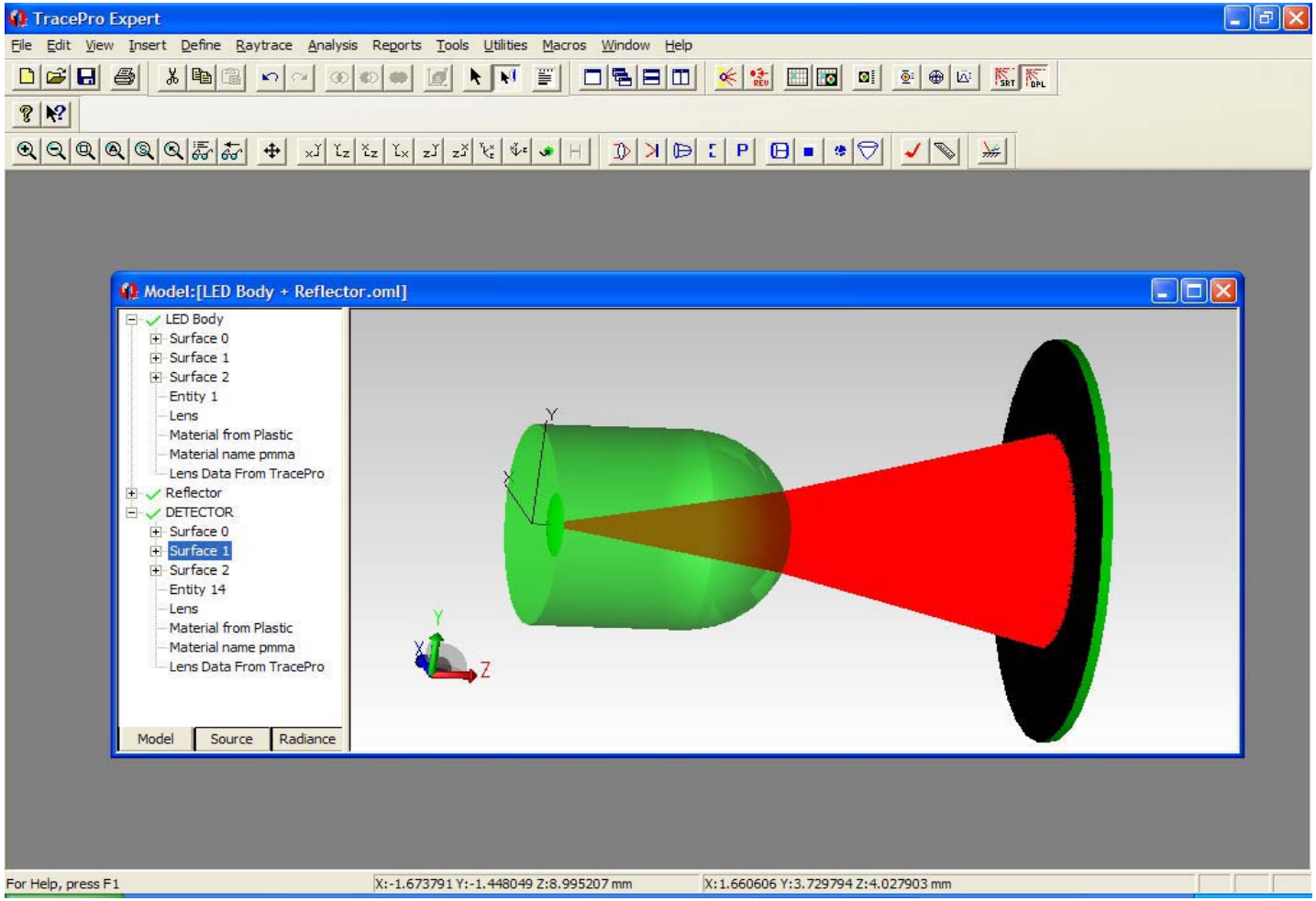
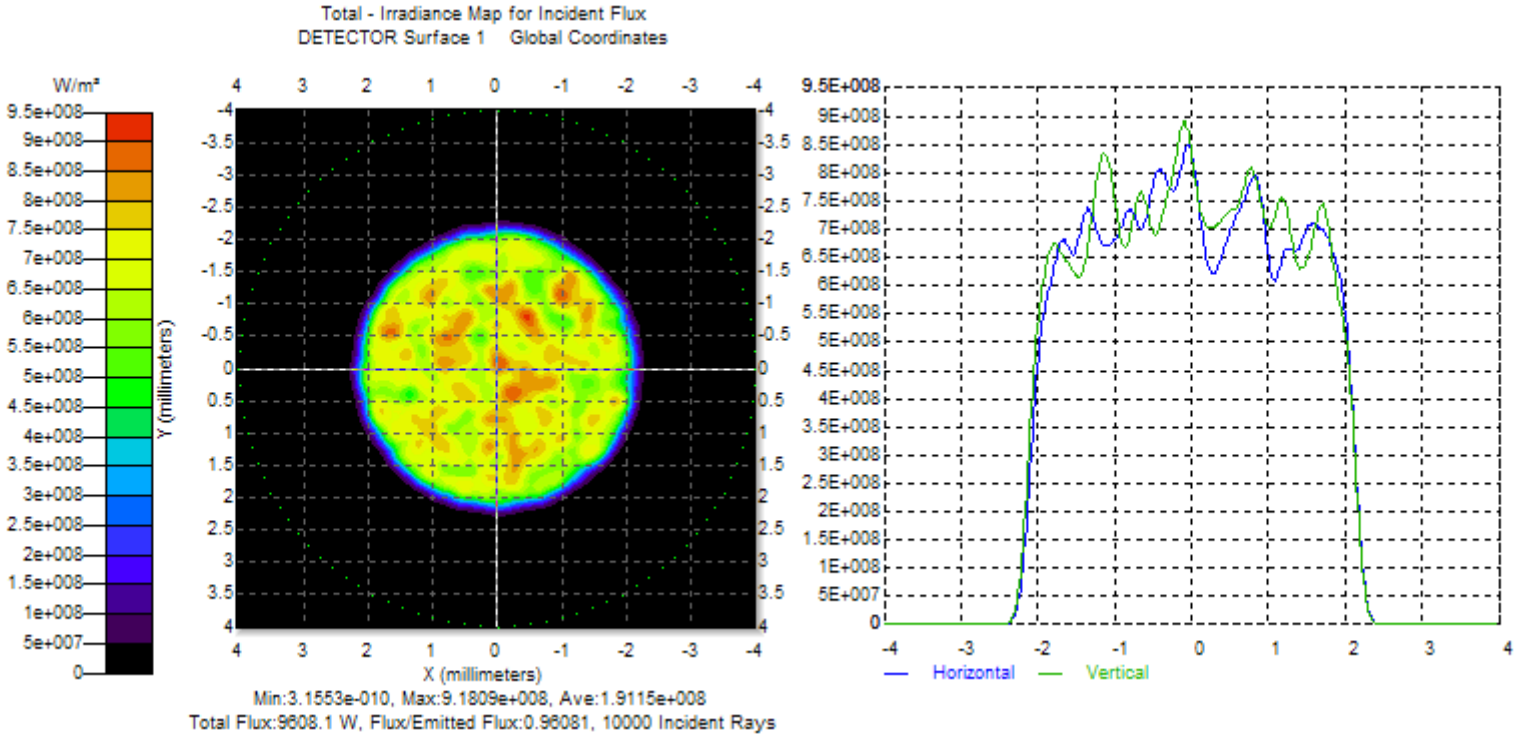
ANALYSIS

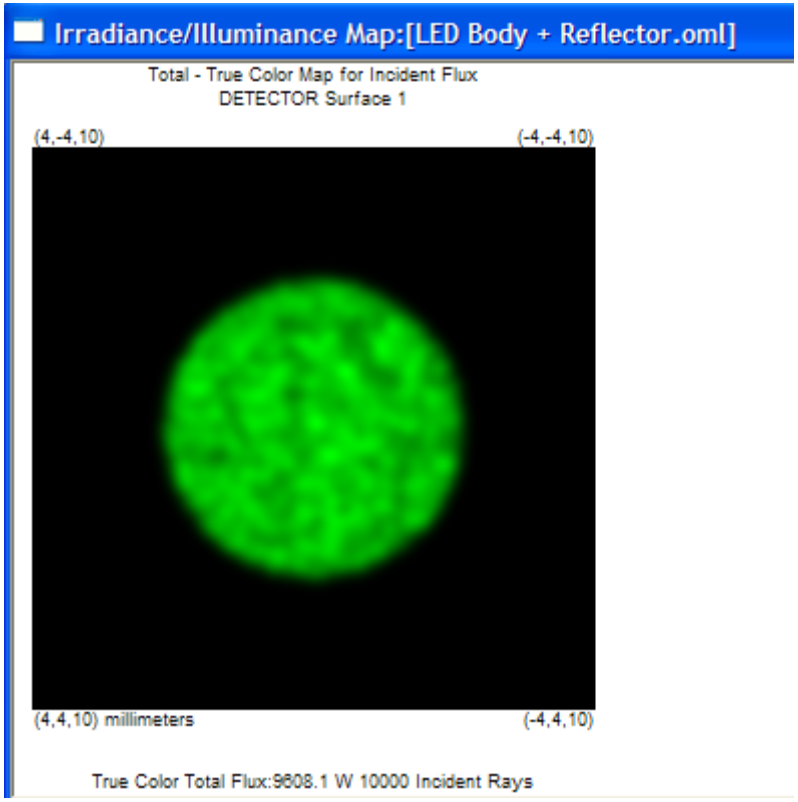
- **TRACE RAYS**



Illumination Map



LED Color


Irradiance/Illuminance Map:[LED Body + Reflector.oml]
Total - True Color Map for Incident Flux
DETECTOR Surface 1
(4,-4,10)
(-4,-4,10)
(4,4,10) millimeters
(-4,4,10)
True Color Total Flux:9608.1 W 10000 Incident Rays