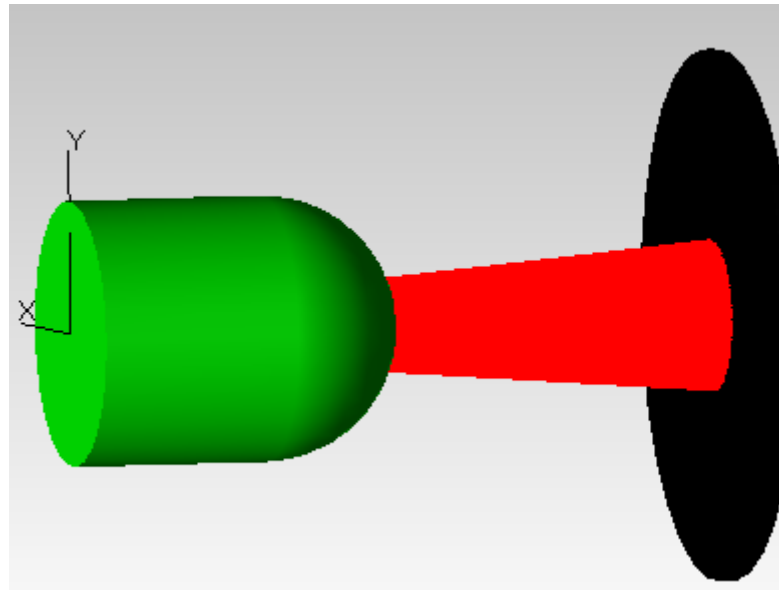


LED MODELING



LED MODELLING

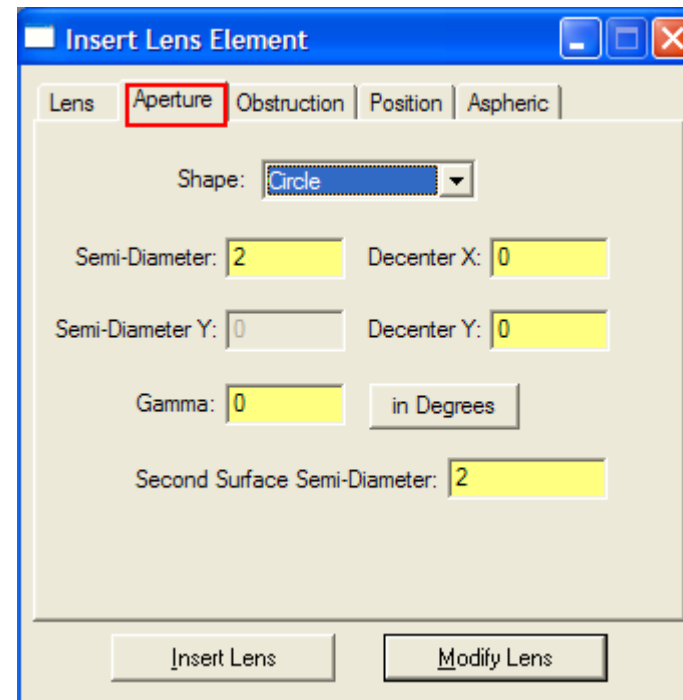
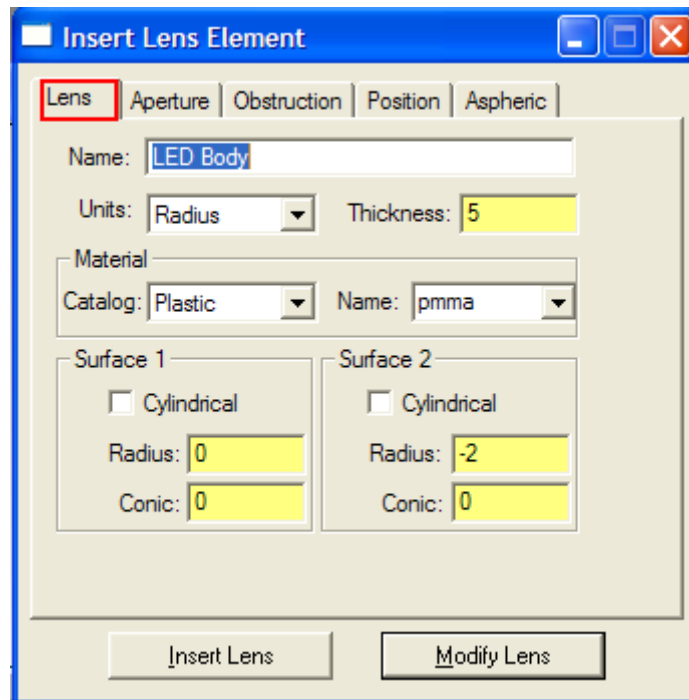
LED Modeling consist of following object :

- Source
- Reflector
- LED Body
- Detector

LED Body

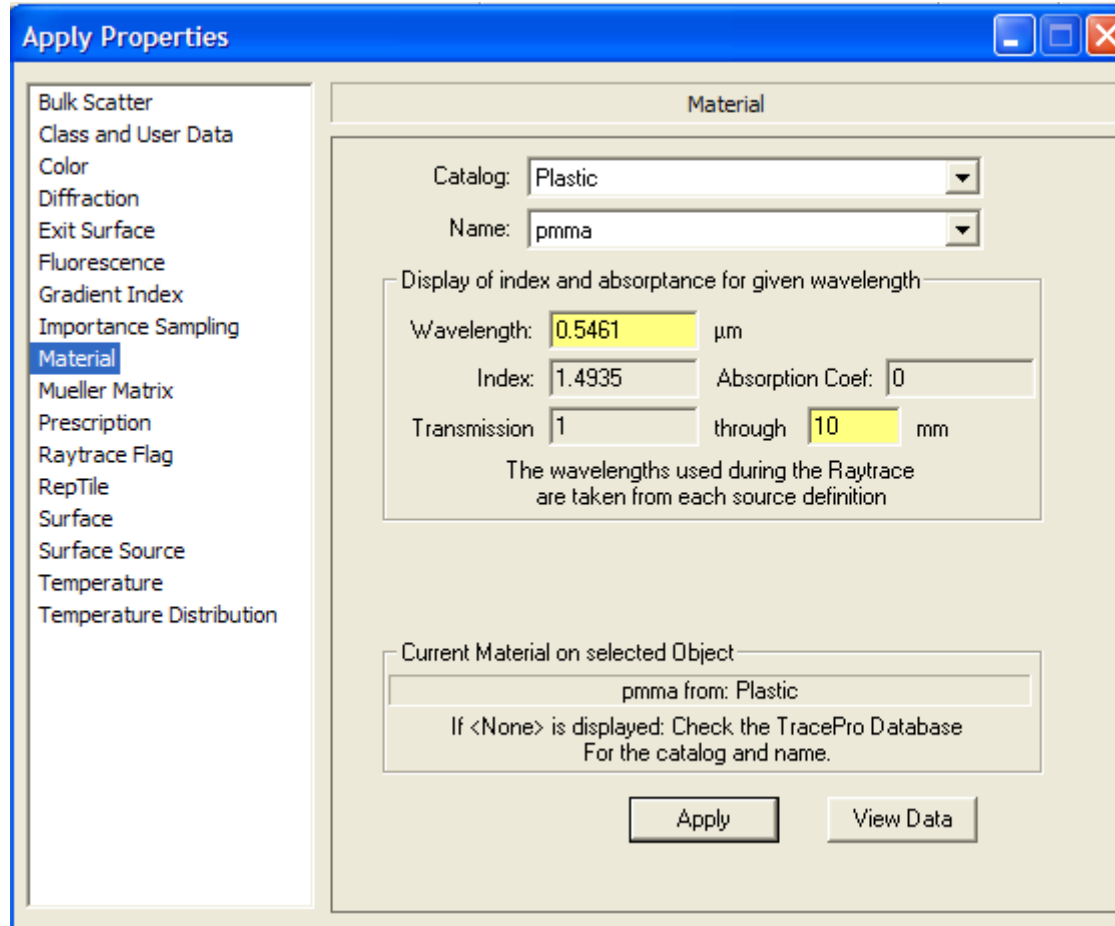
LED Body consist of following properties :

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



LED Body Material

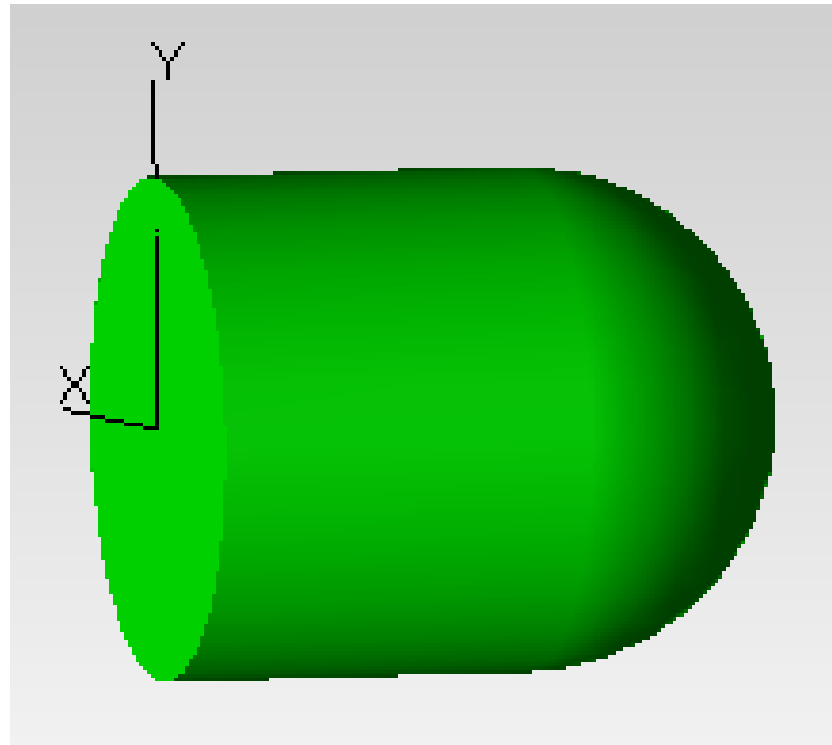
- Material Properties - PMMA



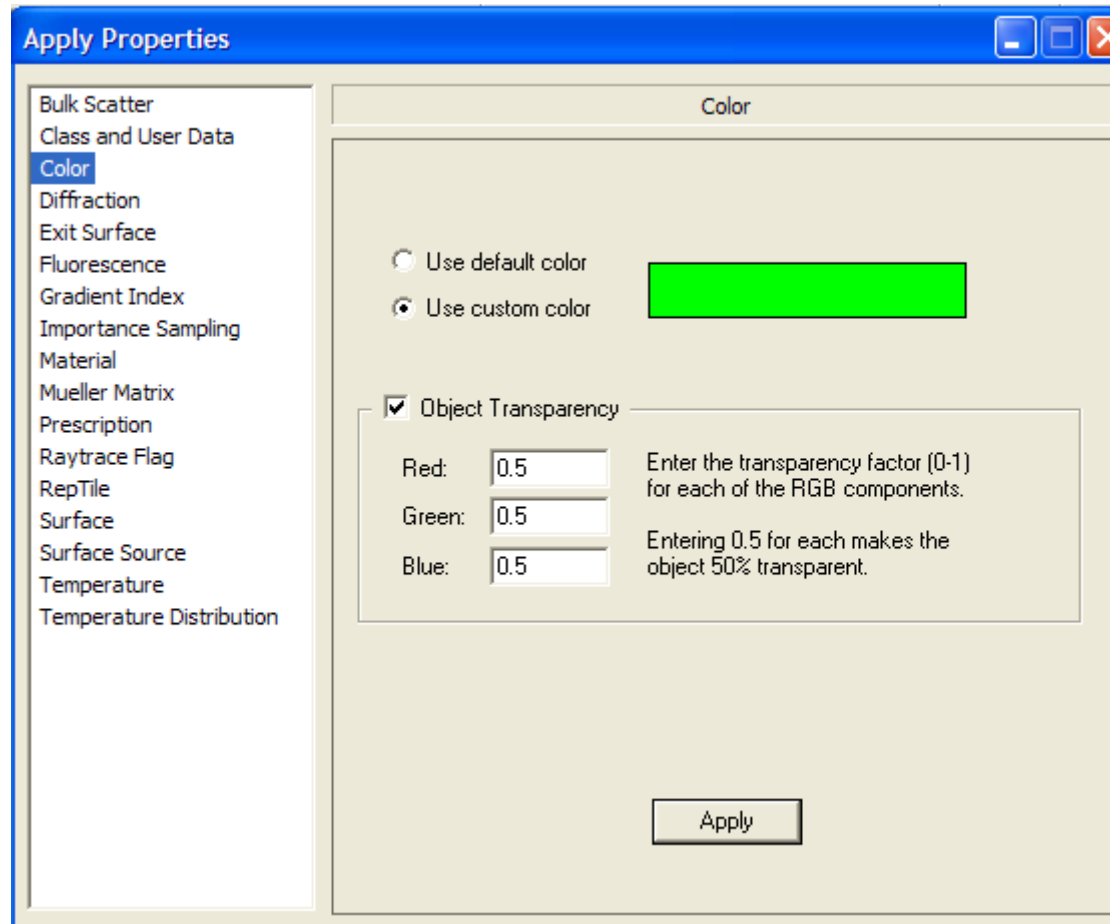
The screenshot shows the 'Apply Properties' dialog box in TracePro software. The 'Material' tab is selected in the left-hand navigation pane. The main area is titled 'Material' and contains the following fields and options:

- Catalog:** Plastic
- Name:** pmma
- Display of index and absorptance for given wavelength:**
 - Wavelength:** 0.5461 μm
 - Index:** 1.4935
 - Absorption Coef:** 0
 - Transmission:** 1 through 10 mm
- Current Material on selected Object:** pmma from: Plastic
- Instructions:** If <None> is displayed: Check the TracePro Database For the catalog and name.
- Buttons:** Apply, View Data

LED Body

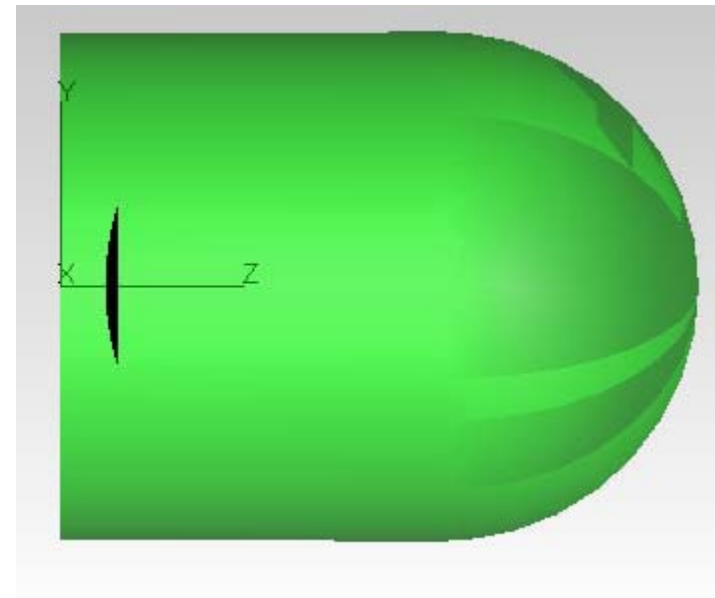
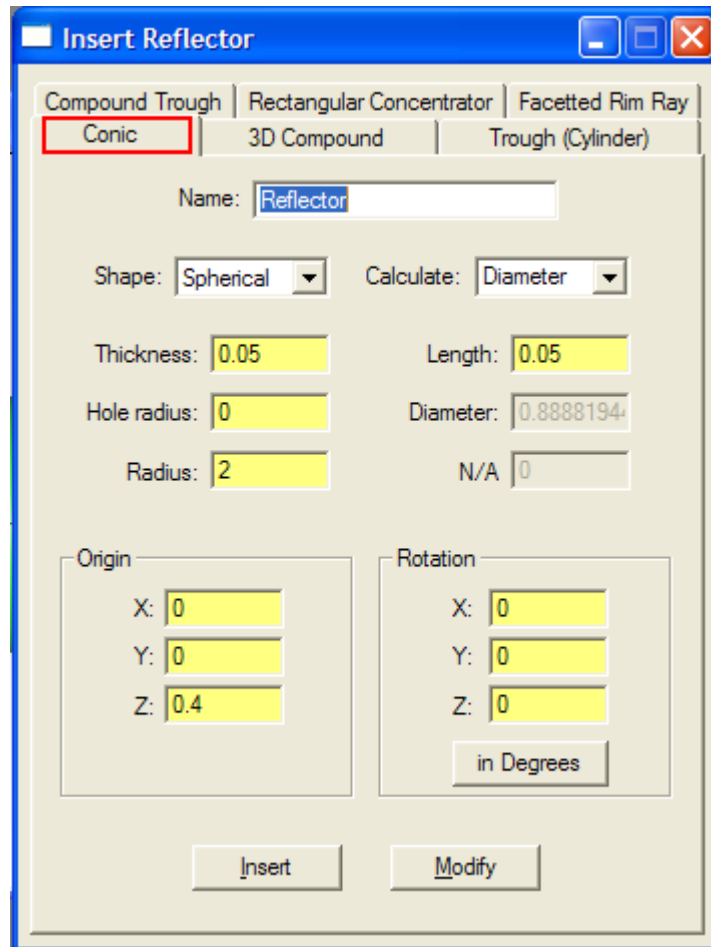


LED Body Transparent



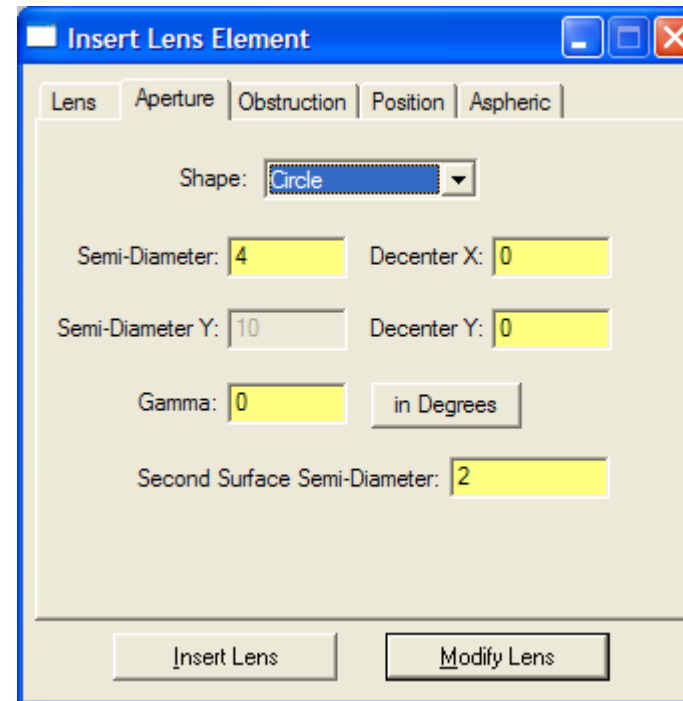
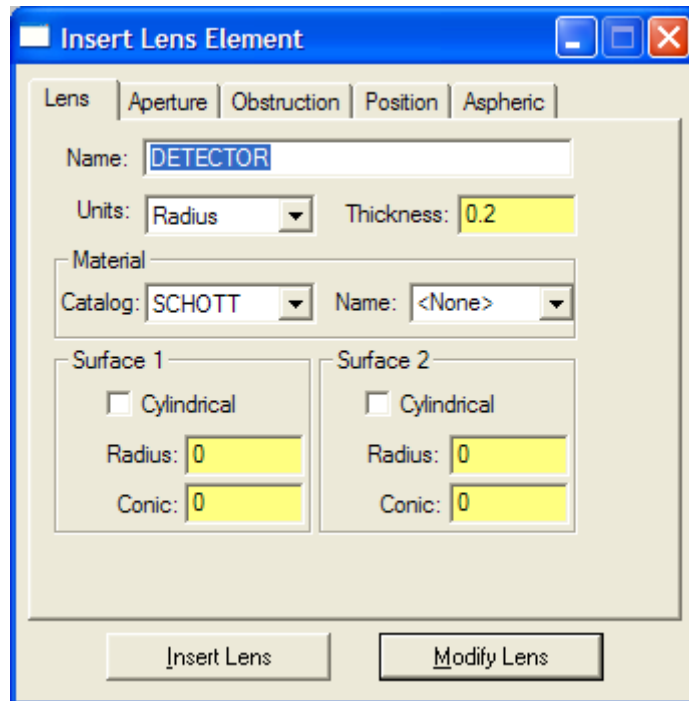
Reflector

Reflector can be define by using conic reflector as below :

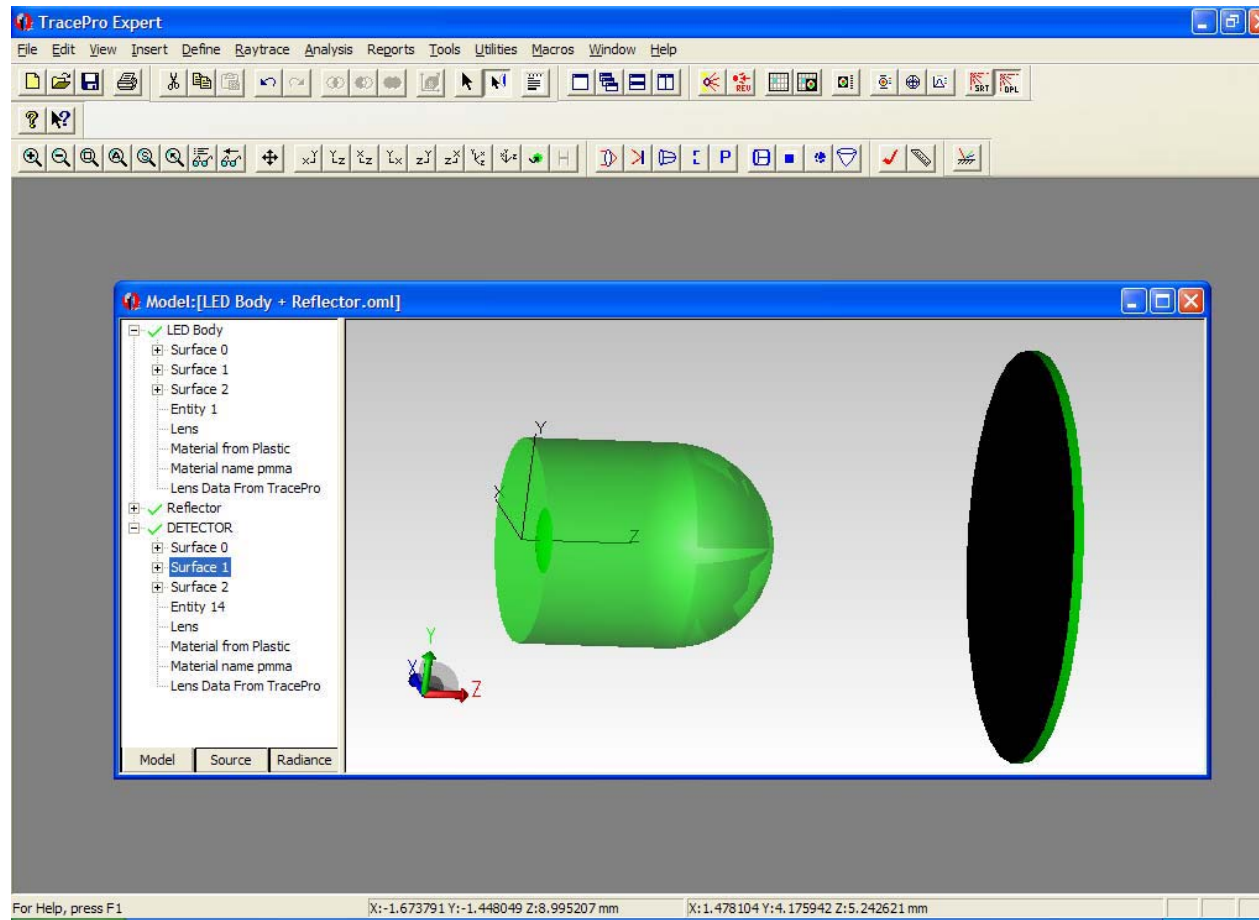


Detector

Define Properties : Perfect Absorber for Surface 1.

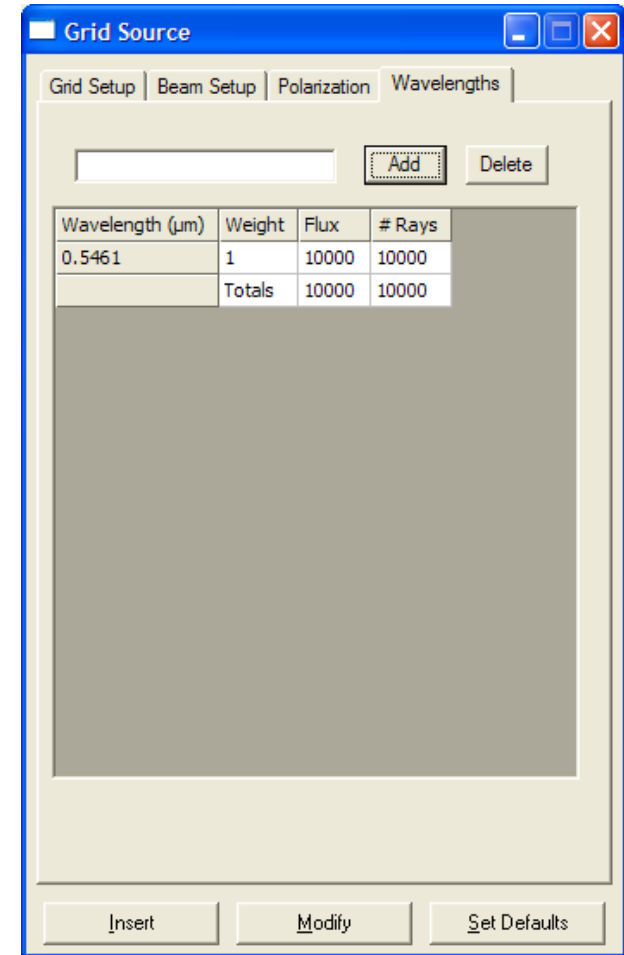
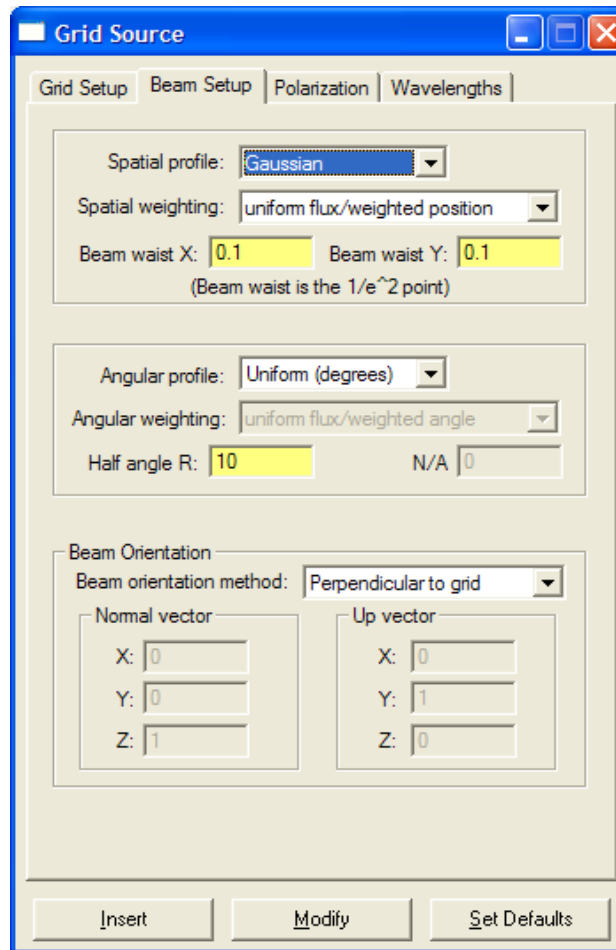
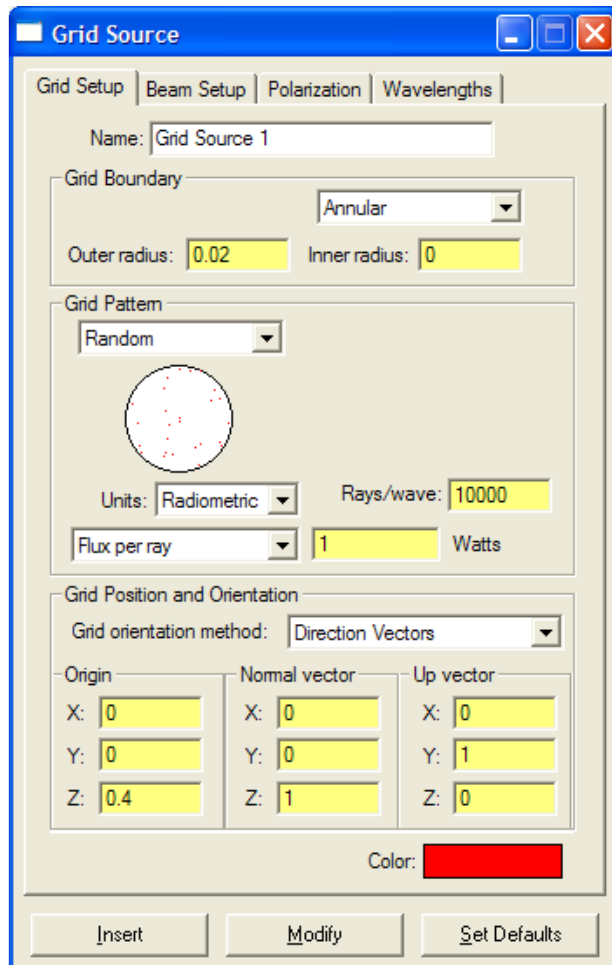


LED Body + Reflector + Detector



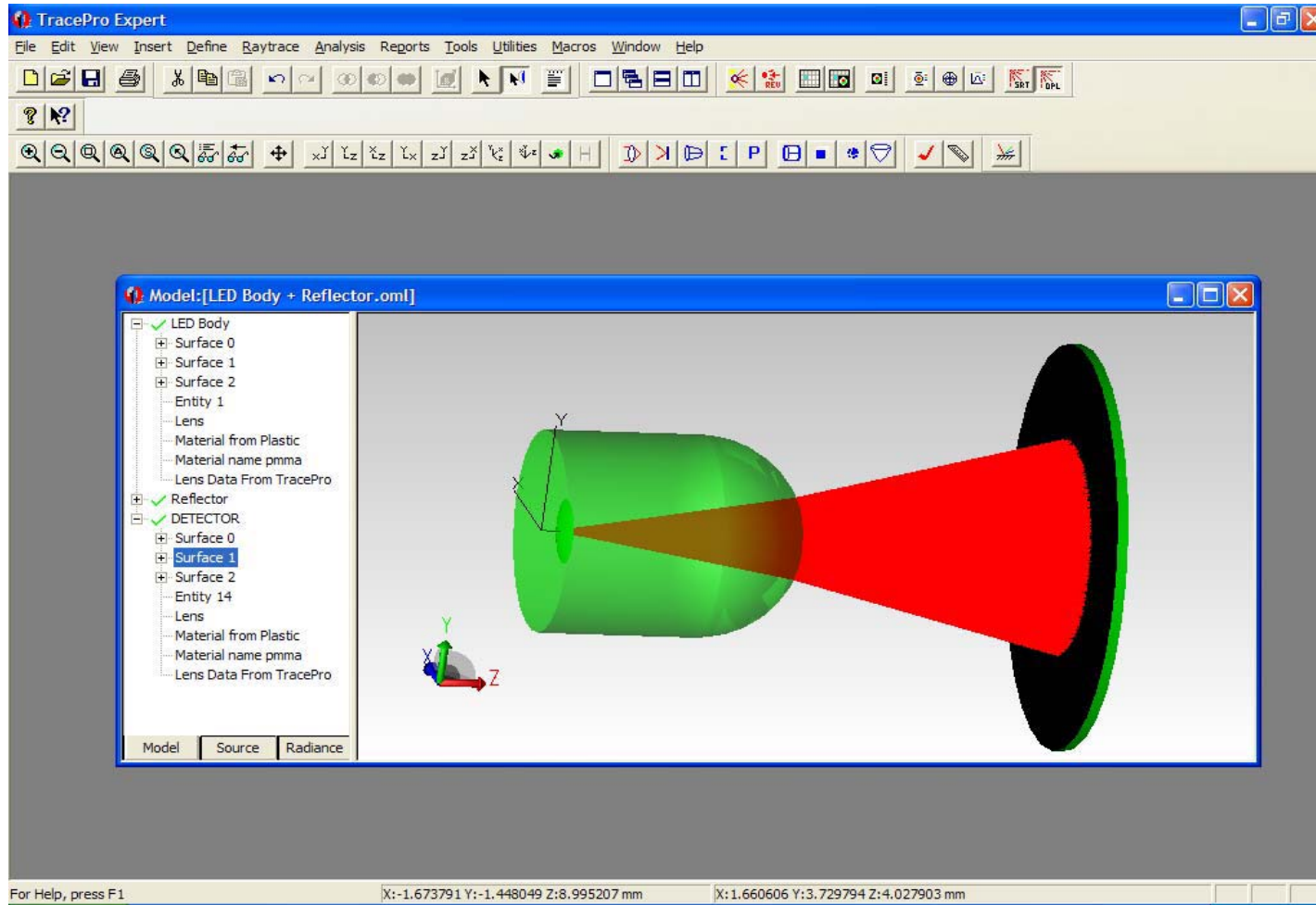
Source

- GRID SOURCE

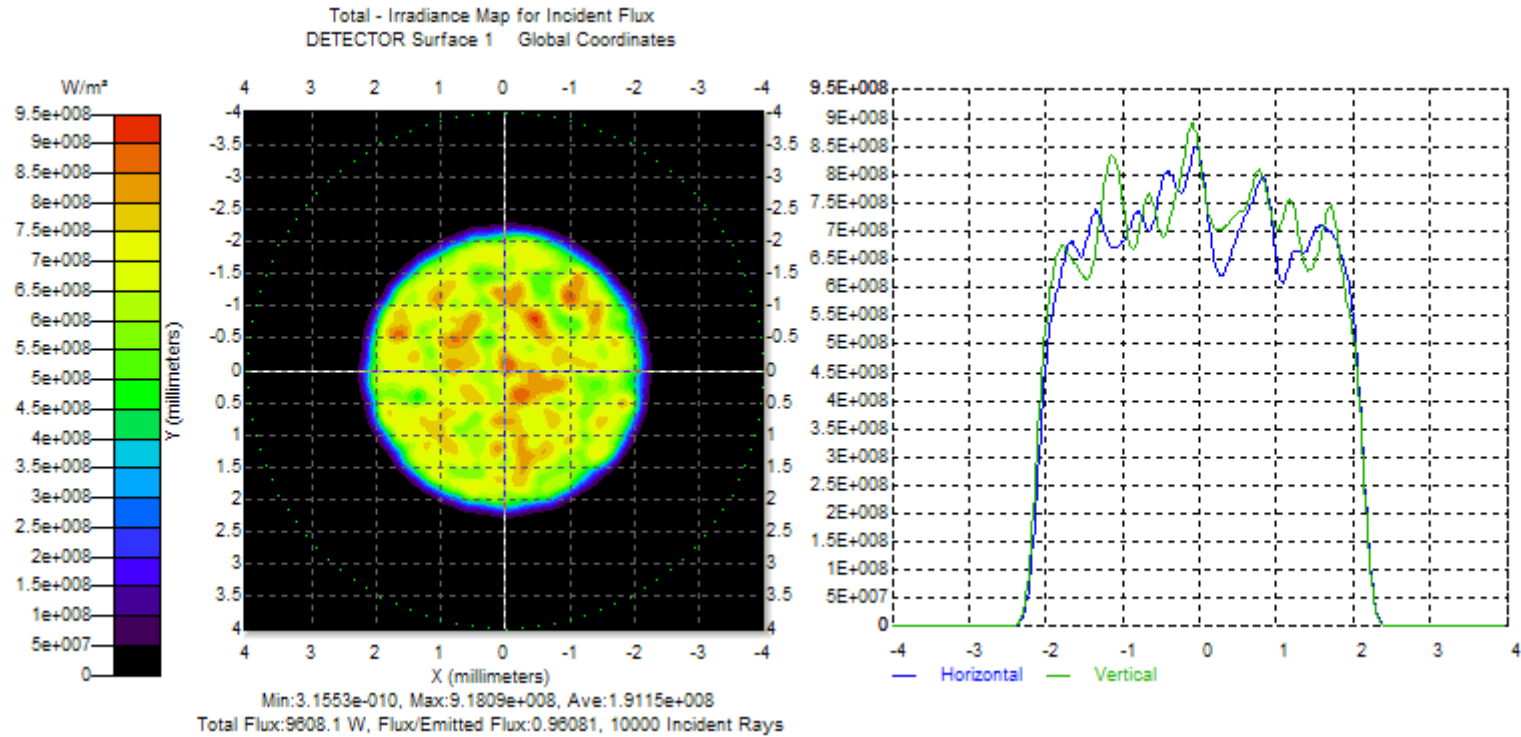


ANALYSIS

- **TRACE RAYS**



Illumination Map



LED Color

