SMARTOptics

Ray Tracing
for
Light Beam Visualization

SMART – FAST – ROBUST

Integrated in

creo® parametric

You like to …

- … design and layout optical components like lenses and mirrors
- … determine discontinuities in optical assemblies
- … inspect the field of view
- … calculate and visualize luminosity

SMARTOptics **provides**:

- Simulation of optical paths directly in Creo Parametric
- Definition of objects and properties in an user-friendly graphical user interface
- Fast and easy computation of the resulting optical paths
- Optical path computation for free-formed parts/lenses
- Visualization and storage of results directly in the Creo Parametric assembly
- Intuitive ribbon and context menus
- Extensive customizable material database

Illuminant Definition

ILLUMINANT_GREEN.prt

Name
Green light source

Description
ne-HG with 546.073 nm wavelength

Intensity
1.000000

Direction
Normal

~ **Wavelength**
ne - Hg   grün   546.073

Name:	ne - Hg
Description:	grün
Wavelength (nm):	546.073000
Default color:	grün

Color
grün   ≈ 560 - 4

End rays		Endl	
End points		Endl	
Absorb rays		Split	
Absorb points		Split	

OK

Material Definition

LENS-PLANO-CONVEX.prt

Name
LENS PLANO CONVEX

Description

Catalog
SCHOTT (123)

Material
N-FK51A   487845.368

Name:	N-FK51A
Description:	487845.368
Reflection:	0.00 %
Loss per length unit:	0.00 %
Refraction index by:	Sellmeier Coefficients

OK   Cancel

SMARTOptics

Project Definition	Open · Save · Remove	Illuminant · Material · Reflector · Split	Update · Display		File · Features	Materials · Catalogs · Wavelengths · Colors
Project ▾		Element Definition	View		Results	Database

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