



Photopia

Design with Speed
Design with Ease
Design with Confidence

New
2.0

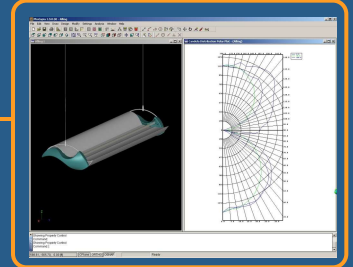
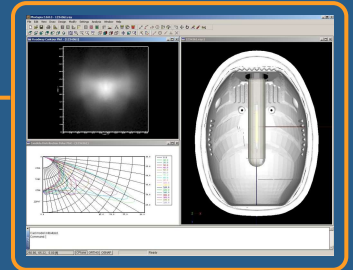
Overview

Photopia is a fast and accurate optical design and analysis program for non-imaging optical systems. Photopia includes a library of real lamps and materials, accepts models from CAD and includes design tools specifically for illumination optics. Photopia allows you to produce virtual luminaires in a fraction of the time and for a fraction of the cost of physical prototypes. Photopia can pay for itself in one design.

Photopia is the most widely used optical design and analysis software at lighting companies worldwide, including those that represent over 65% of the lighting products sold in the US every year.

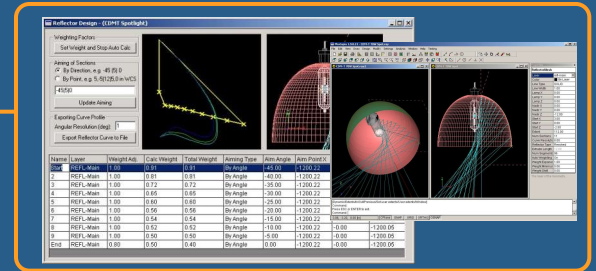
Features

- + Built-in CAD system interfaces with almost any CAD package
- + Works with AutoCAD®, Pro/Engineer®, Solid Edge®, SolidWorks®, SDRC®
- + State-of-the art raytrace engine for fast and accurate calculations
- + Unlimited number of surfaces
- + Extensive performance statistics
- + Shaded illuminance planes
- + IESNA and NEMA classifications along with standard metrics
- + Output to IESNA, EULUMDAT, and TM-14 photometric files



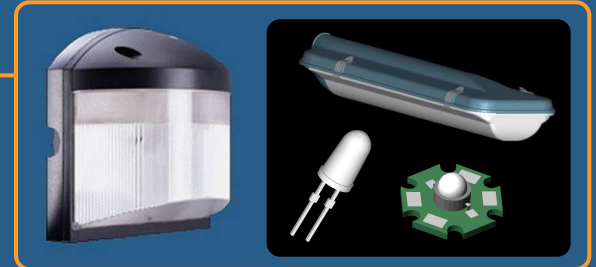
Parametric Optical Design Tools

- + Revolutionary tools automatically produce reflector shapes based on user-defined aiming parameters
- + Makes 3D circular parts and symmetric / asymmetric extrusions
- + Interactive parameters instantly update design geometry
- + Works with extended light sources and non-specular materials
- + Optical designs can be completed in minutes - instead of days
- + Custom design tool development



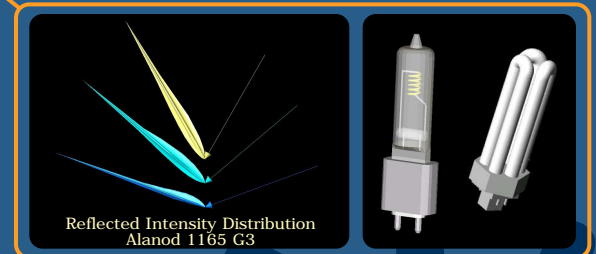
Refractor Module and LED Designs

- + Model 3D refractors with the refractor module
- + Extruded lenses, Fresnel lenses, fiber optics, light pipes, more
- + Properties include index of refraction, extinction coefficient and scattering effects at optical interfaces
- + Accurate LED models: real spatial and angular light distributions



Lamp and Material Library

- + Lamp library: True geometry and photometric characteristics of over 200 common lamps
- + Material library: BRDF/BTDF data for over 150 common materials
- + Includes reflector and refractor materials from vendors such as 3M, ACA, Alanod, Daume-Jordan, Lorin, Prefinished Metals
- + Library of measured data eliminates the guesswork of material scattering properties
- + Custom lamp and material measurement services



plus: LTI's professional technical support, tutorials, online FAQ section, and personalized training seminars

SPEED

Analysis:
5,000,000 rays
5 reflections

Fluted ellipsoidal reflector
122,000 surfaces

7 min 30 sec

Analysis:
1,000,000 rays
5 reflections

Floodlight
5,000 surfaces

30 sec

P4 - 2.4Ghz



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