

External Light Sources Directive

Key	Name	Description	Default
SFIL	File name	Name of ASCII file containing spectrum data in five column format: Lambda (nm), Spectral Power (W/cm ²), Absorption coefficient Alpha (1/cm), Transmission coefficient of the front surface and Reflection coefficient of the back surface. Note that second column is NOT spectral power density (W/cm/um). The first line is for title and is skipped when the file is read.	spectrum.spc
FLUX	Integral spectrum power (W/cm ²)	Integral power of the spectrum. All spectrum components weighted proportionally so that total spectrum power is equal to FLUX. If this value is zero or negative no scaling is done (spectrum data from the file are used without transformation).	0.1
NSPC	Number of spectral lines	Number of monochromatic components in the spectrum	40
REFL	Back reflection coefficient	Integral reflection coefficient of the back surface (factor to all spectrum components)	0
TRAN	Front transmission coefficient	Transmission coefficient of the front surface (factor to all spectrum components)	1
XLFT	Left edge of illumination (um)	Left edge of the illumination window. Illumination window in both X and Y directions allows to specify different Transmission and Reflection coefficients and different thickness of the semiconductor region thus enabling non-planar solar structure simulation.	0
XRGH	Right edge of illumination (um)	Right edge of the illumination window	1
YTOP	Top edge of illumination (um)	Top edge of the illumination window	0
YBOT	Bottom edge of illumination (um)	Bottom edge of the illumination window	1