

### Abstract

This tutorial gives an introduction to the concepts and the usage of the Lighting Toolbox. Analysis and design of Grating Cells Arrays are demonstrated.

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<b>Keywords:</b>	Lighting Toolbox, grating cells array, shaping, far field source, camera detector
<b>Requirements:</b>	VirtualLab version 5.0 or higher – <b>Lighting Toolbox</b>
<b>Version:</b>	1.1
<b>Files:</b>	Corresponding files can be found <a href="#">here</a> .
<b>Related Scenarios:</b>	<a href="#">Scenario_317.01</a>

The actual tutorial is contained in the file Tutorial\_96.01\_Tutorial\_Lighting\_Toolbox.pdf. It explains the design and the analysis of a typical VirtualLab Lighting Toolbox system which contains a Grating Cells Array to shape the incident light into an arbitrary distribution.

The file Logo.lpd is also available and defines the target distribution which is used for the design and simulation within this tutorial.

### Technical Support

If you have any questions, remarks or problems concerning this tutorial, or in using VirtualLab in general, please do not hesitate to contact us by E-Mail [support@lighttrans.com](mailto:support@lighttrans.com).

Please use the update service to install the current version of VirtualLab. Alternatively you can use the latest **Trial Version** of VirtualLab which is available at our [download site](#). If you have been registered already for an older trial version, just contact us by [E-Mail](#).

To ensure that this tutorial gives the same results as described, set the global settings to the default values. In VirtualLab this can be done in the **Extras > Global Options** dialog with the **Reset All** button.