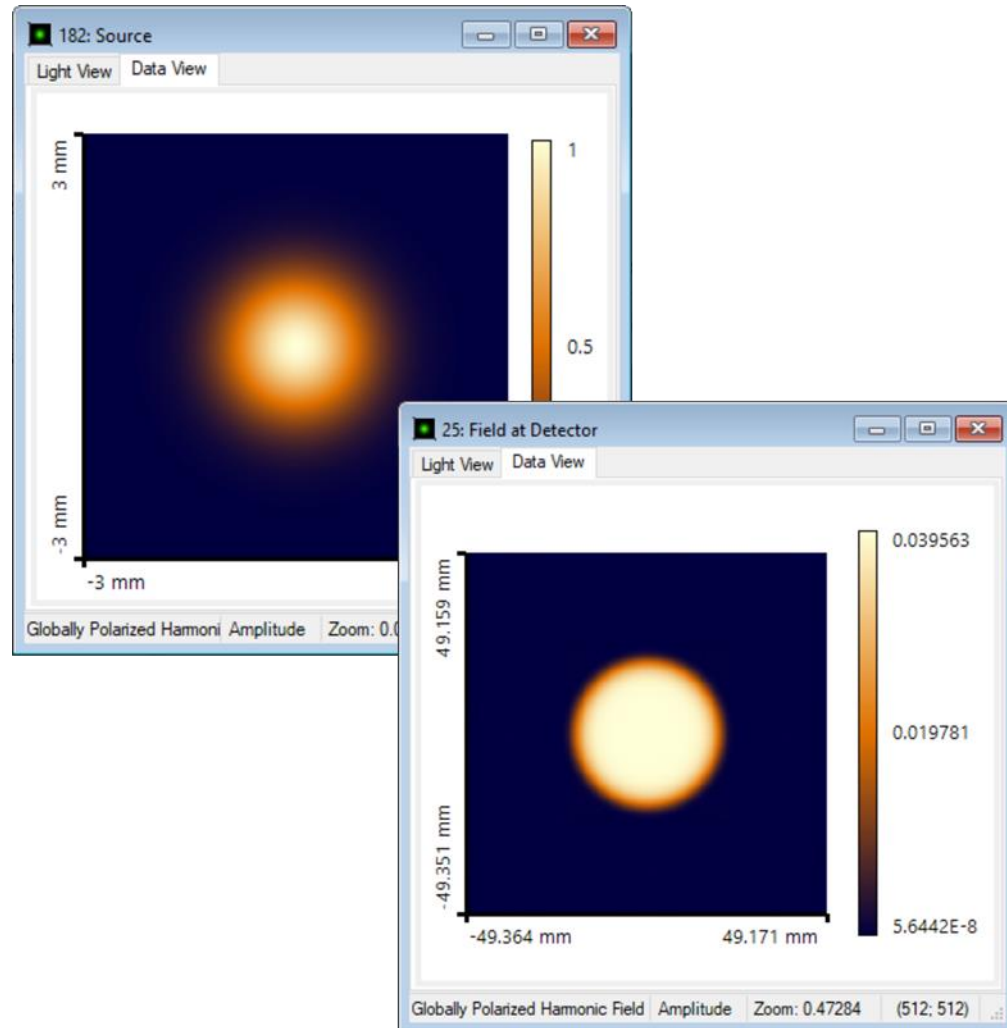


# Design of a Beam Widening DOE

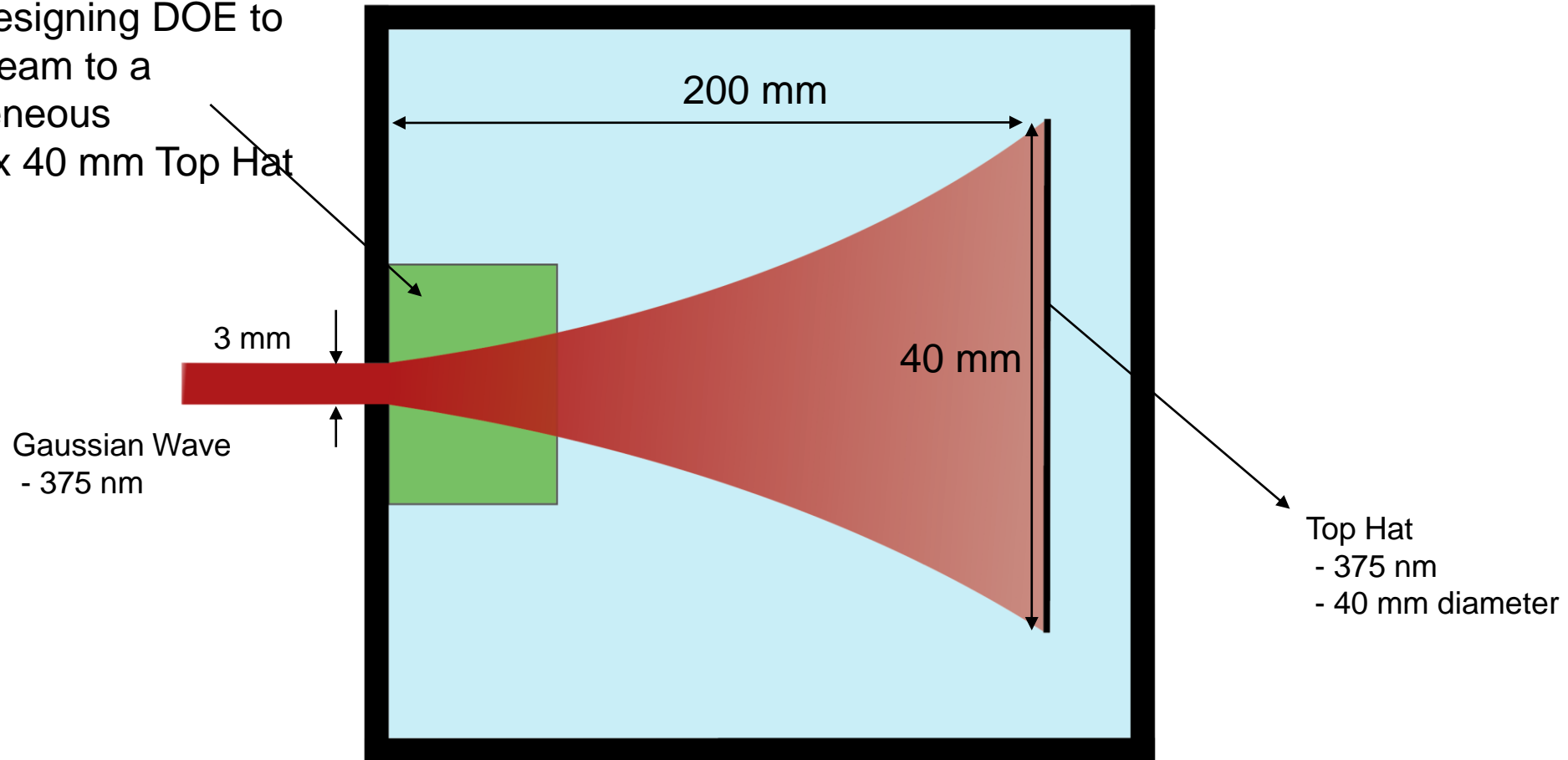
# Abstract



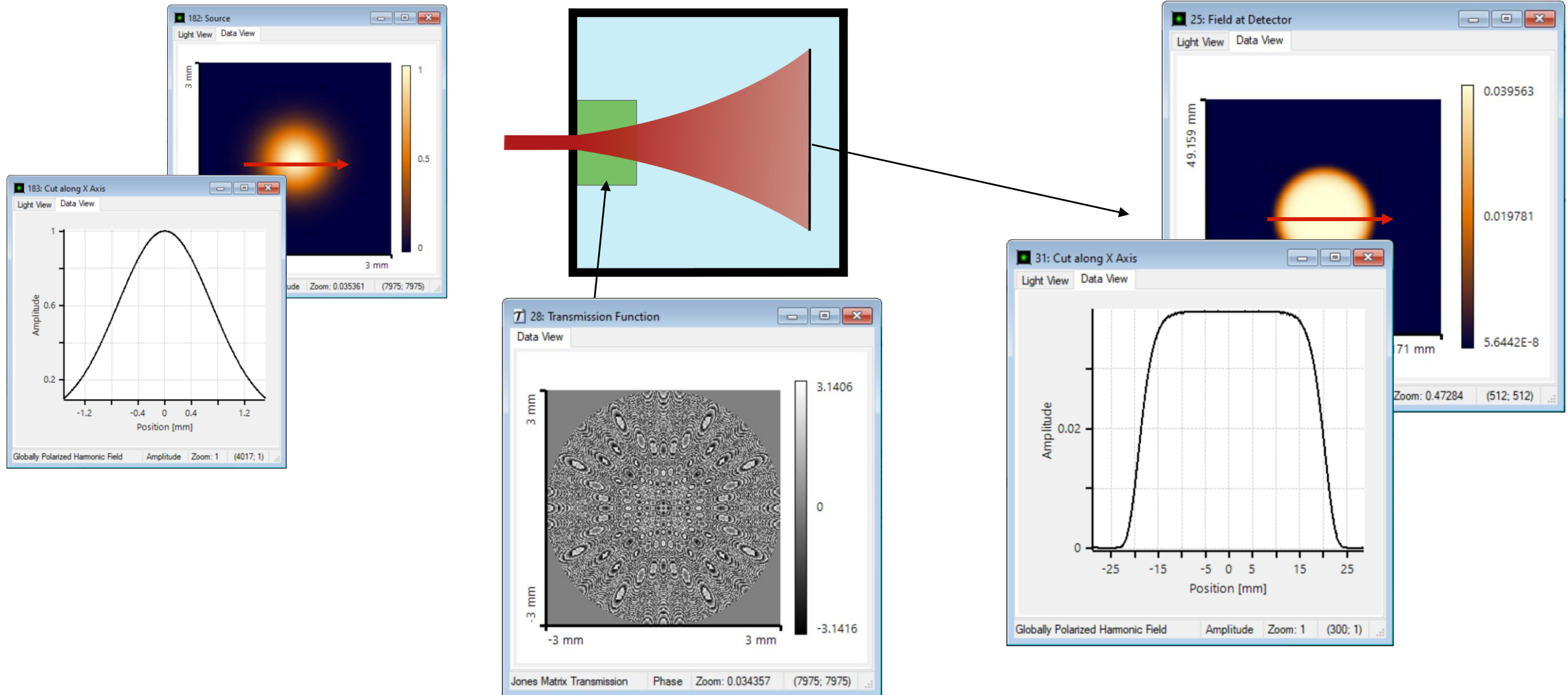
In order to achieve a homogeneous illumination over a wide area a top-hat shaped beam is often used. When this form shall be generated from a narrow input beam a diffractive optical element (DOEs) can be utilized for this purpose. In this demonstration we show a DOE which can shape incoming light from a standard gaussian shape into a top-hat shape.

# Task Description

Task: Designing DOE to widen beam to a homogeneous 40 mm x 40 mm Top Hat



# Results



# Document Information

---

title	Design of a Beam Widening DOE
document code	Demo.0018
version	1.0
VL version used for simulations	VirtualLab Fusion Spring Release 2020 (2020.1.0.108)
category	Demo
further reading	

---