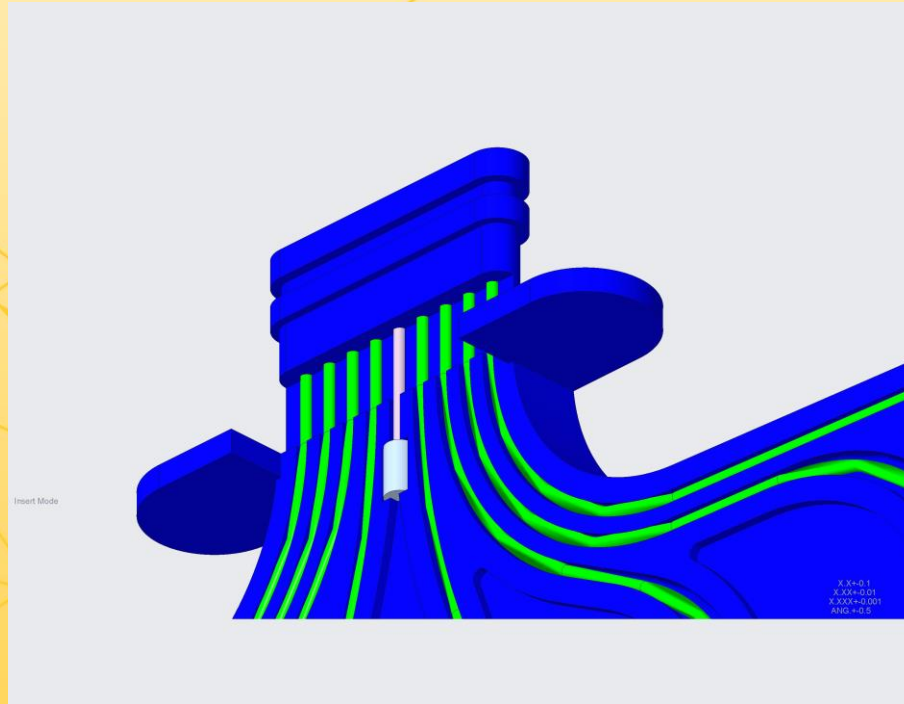


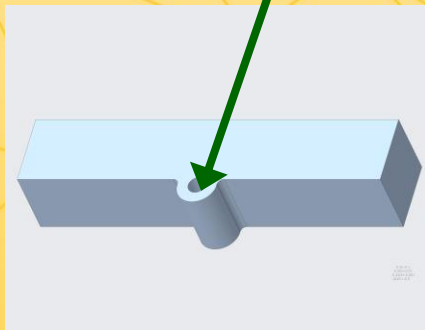
Light Injection Concept



Tom Chase
August 23, 2024

Light Injection Components

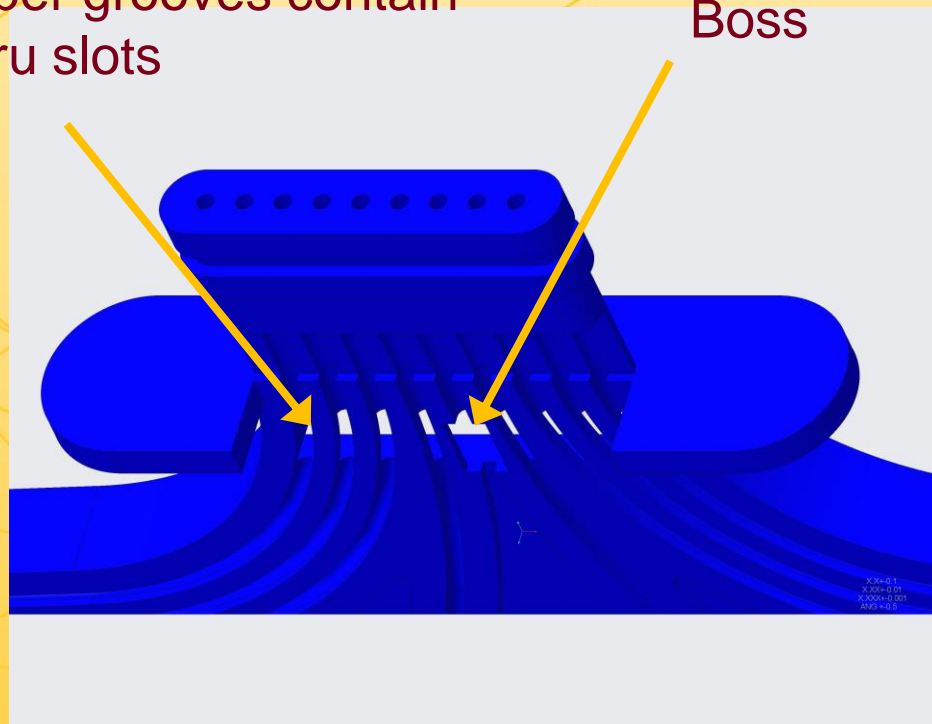
Blind hole in boss
(for LI fiber)



Light Injection
Diffuser Block

Fiber grooves contain
thru slots

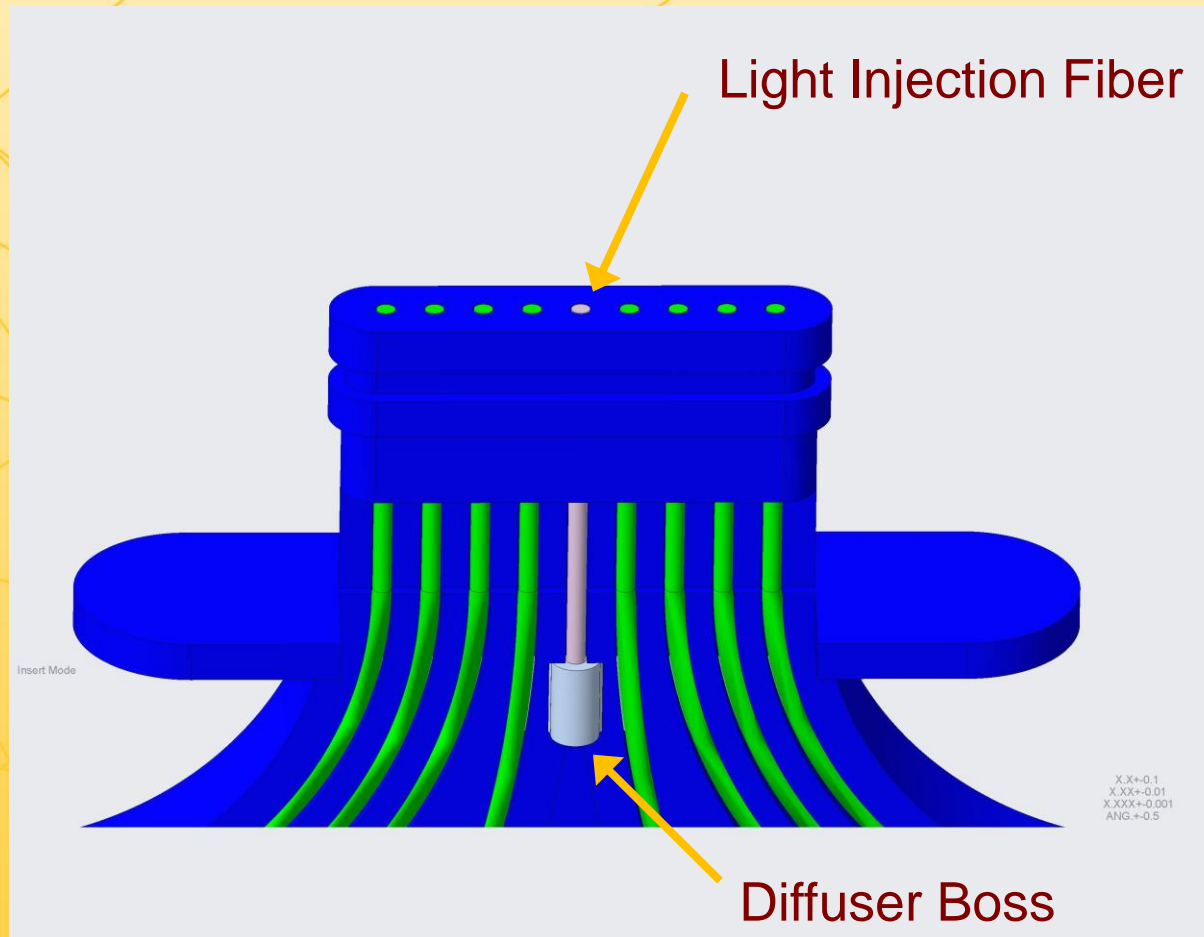
Pocket for
LI Diffuser Block
Boss



Modified Fiber Guide

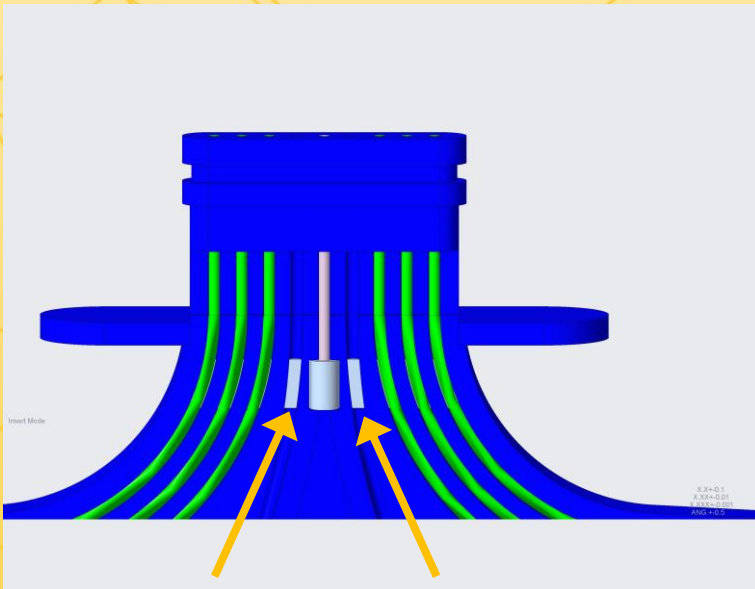


Light Injection Fiber Connection



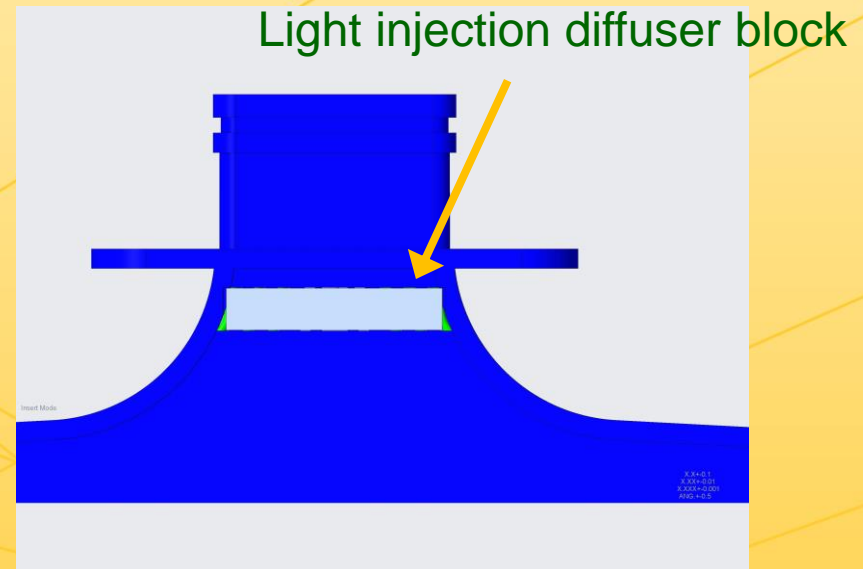
Assembled Views of Light Injection System

Front view



Fibers 3 & 4 suppressed to illustrate diffuser block at bottom of fiber grooves

Back view

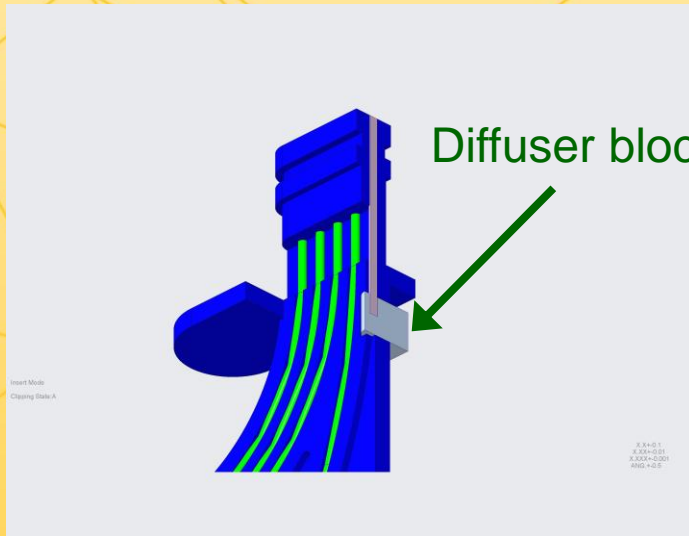


Light injection diffuser block is installed in a pocket on the back of the fiber guide

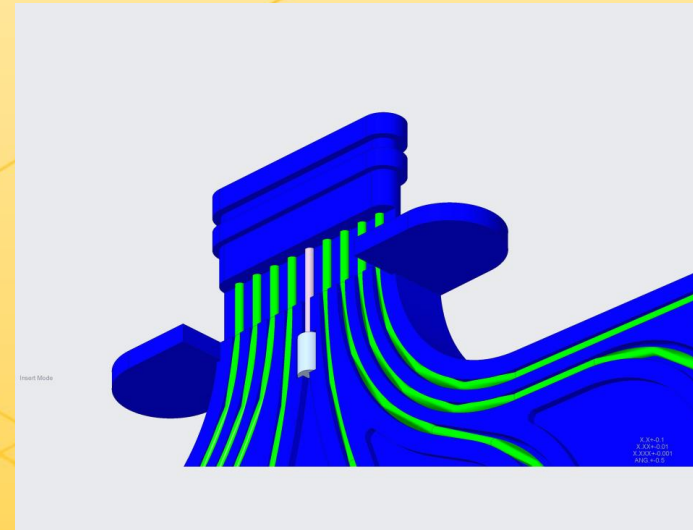


Additional Views of Light Injection System

Cutaway view



All fibers installed



*Light injection system is simple and compact.
It illuminates 8 fibers with 1 LED.*