Requirement rationale

Pupil uniformity: 20%

Pupil uniformity change of 20% \rightarrow max change of spectro PSF FWHM < 0.2% $\forall \lambda$

Meets requirement on PSF stability of 3% (requirement IN.FBR-5013, see DESI-0581 (v8)).

Full uniformity study by P.Jelinsky

- Light intensity on the screen
 → angular distribution into the fibers
- The fiber scrambles the light azimuthally and blurs it slightly radially due to Focal Ratio Degradation (FRD)
- Changing angular distribution fiber
 output fiber
 - \rightarrow small effect on spectro PSF



