

Figure 1: Monochromatic on – axis PSF in log irradiance, normalized to the peak irradiance value.

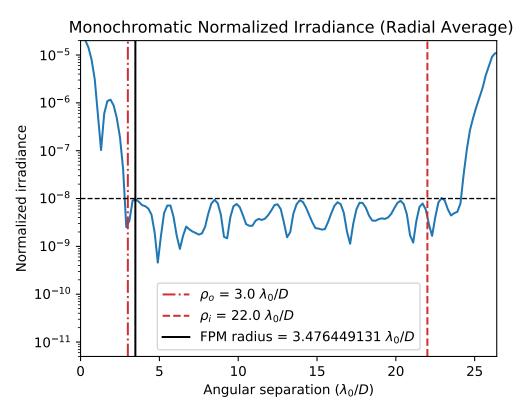
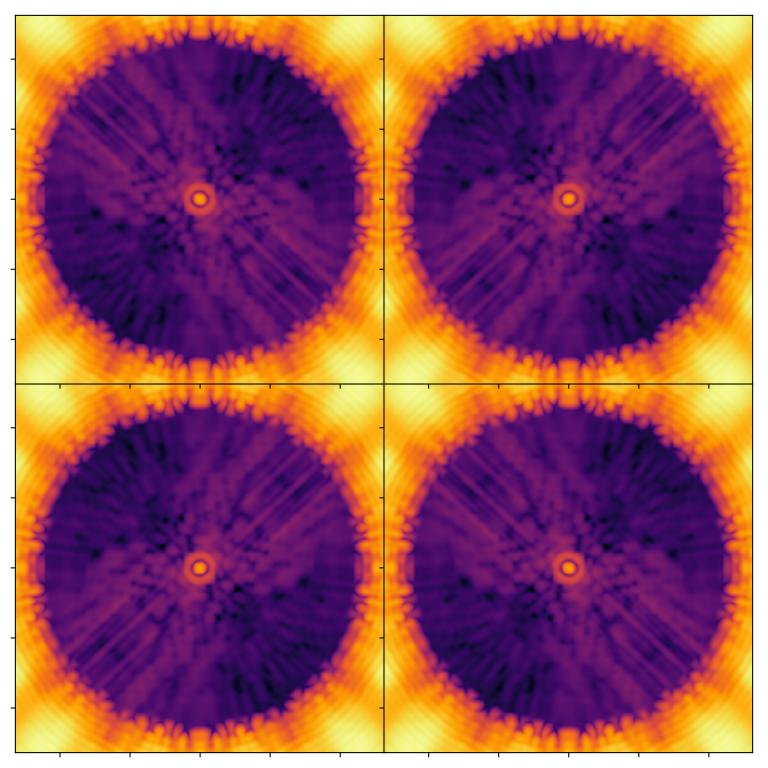


Figure 2: Monochromatic on – axis PSF azimuthally averaged over angular seperations $0.1\text{-}37.3~\lambda/D$, normalized to the peak irradiance. The vertical, solid black line at separation $3.476449131~\lambda/D$ marks the radius of the FPM occulting spot. The vertical, redlines at $3.0~and~22.0~\lambda/D$ respectively indicate the radii of the inner and outermost constraints applied during the apodizer optimization.



APLC Analysis Summary

APLC design	2.51188643150958%
nPup	1168 x 1168 pixels
Gap padding (multiplicative)	
Oversampling (grey levels)	
Telescope	GPI
Lyot stop inner diamater (% of inscribed circle)	0.08
Lyot stop outer diameter (% of inscribed circle)	0.012
Bandpass	2.51188643150958%
# wavelengths	3
FPM radius (grayscale)	3.476449131 λ/D
nFPM	1168 pixels
IWA — OWA	3.0—22.0 λ/D

Optimizer called with the following parameters:

- $\label{eq:continuous} $$ \vartriangleright$ \textit{Pupil file}: $$ GPI/Primary_GPI_grey_oversamp04_symmetric_N1168.fits $$$
- ▷ Lyot stop file: GPI/LS_GPI_080m12_03_grey_oversamp04_notabs_N1168.fits

