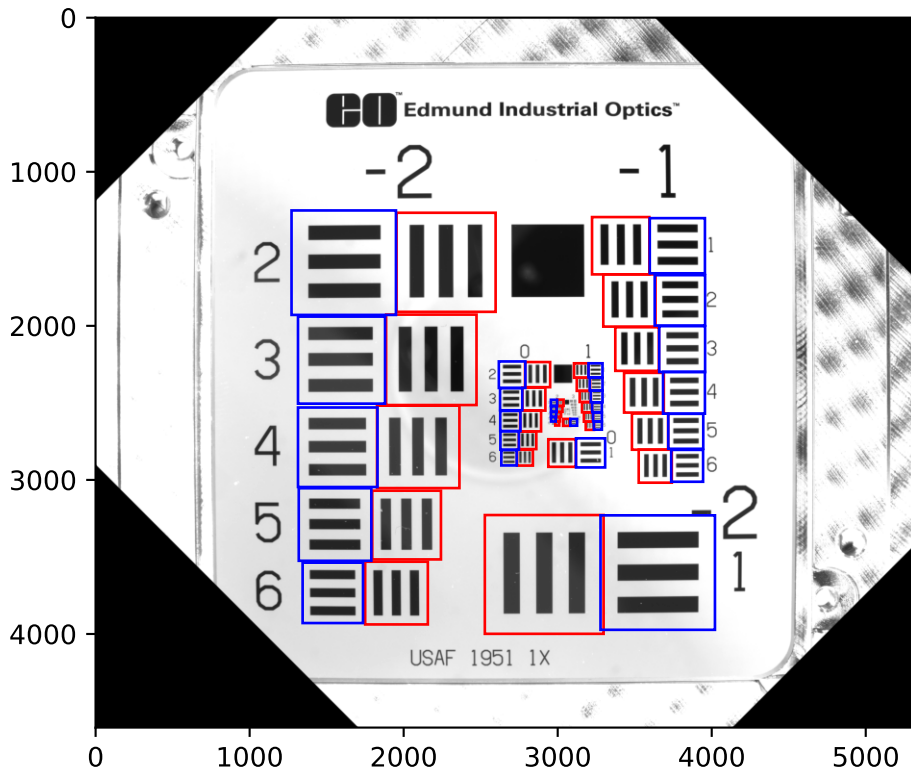


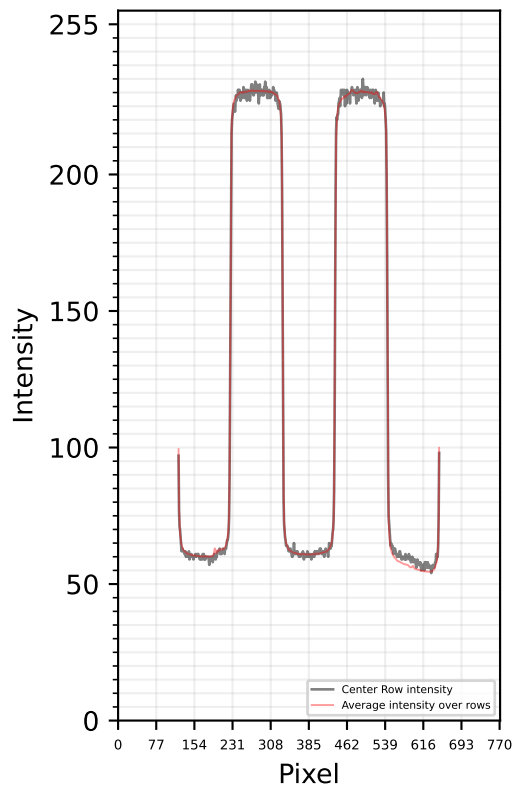
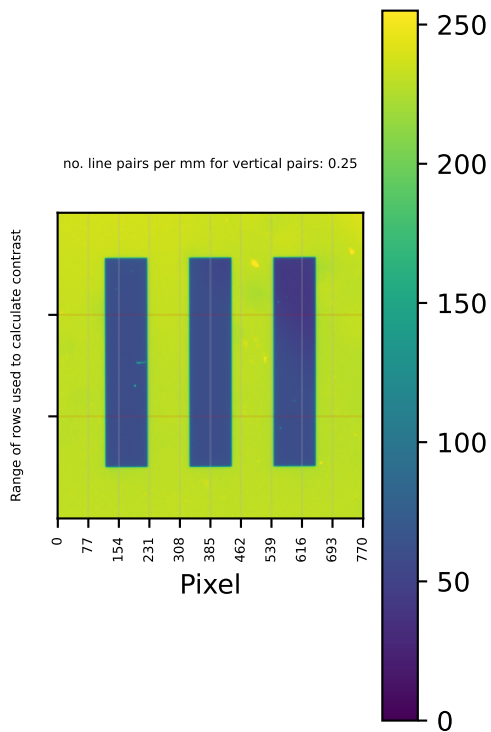
Original script provided by
Richard Bowman in 2017 on https://github.com/rwb27/usaf_analysis
Updated by Louis Ngo, Jean-Marie Yazbeck
Current script runs from the version edited by
Jean-Marie Yazbeck in 2023 on https://github.com/JM-Yaz/usaf_image_analysis

Libraries used:

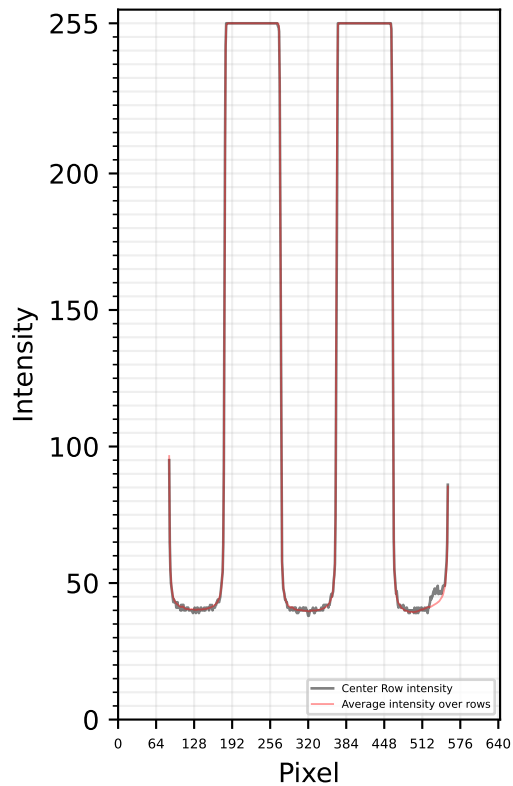
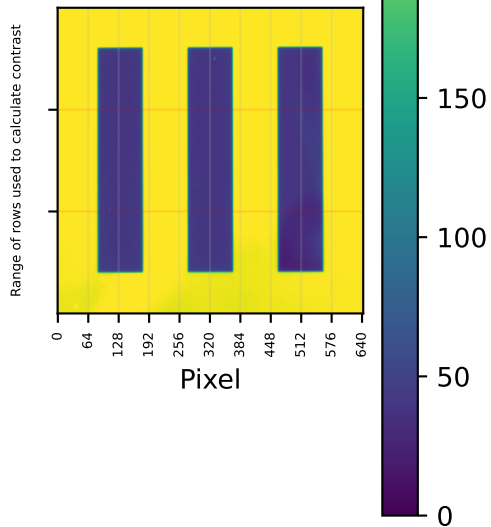
numpy
cv2
matplotlib
scipy
skimage
os
sys
datetime

Python version: 3.8.16
Executed on 2023-04-24 16:18:33

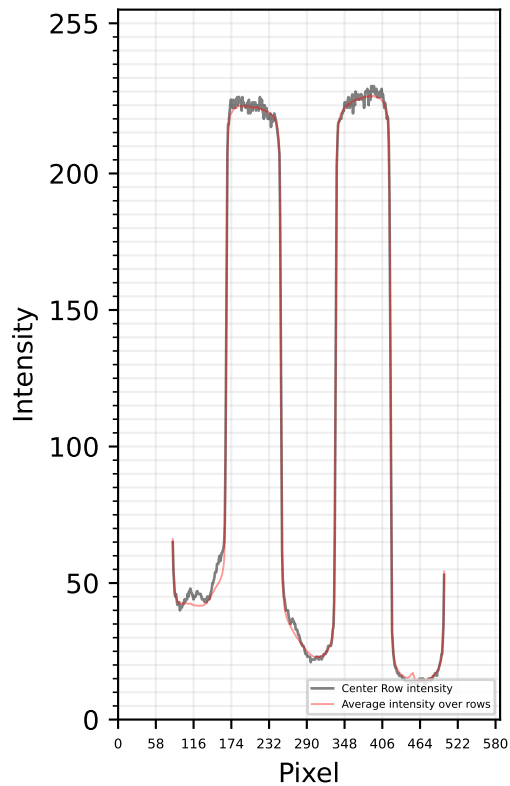
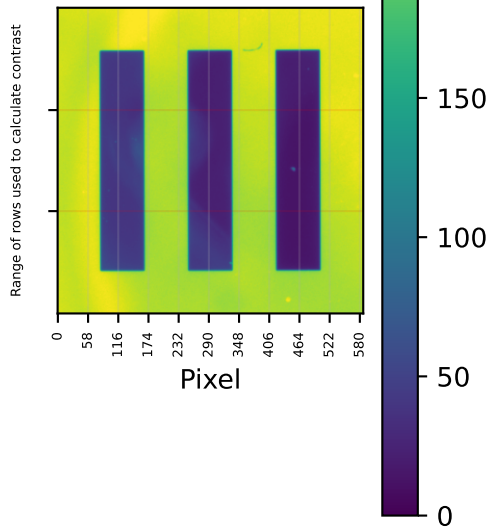


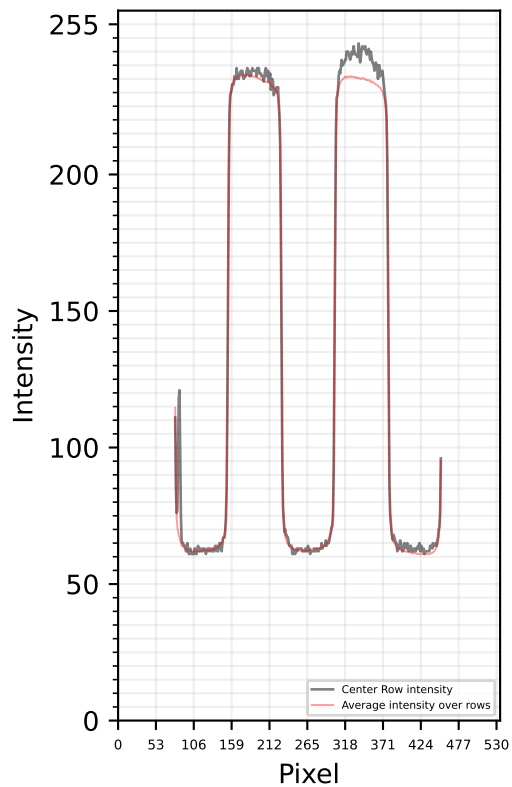
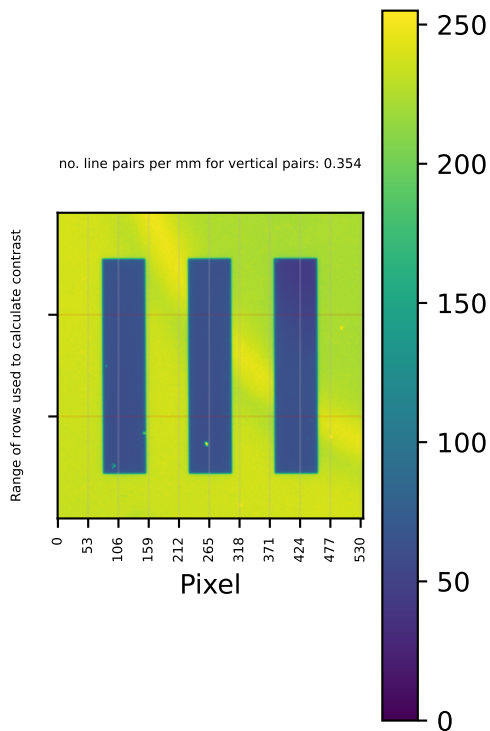


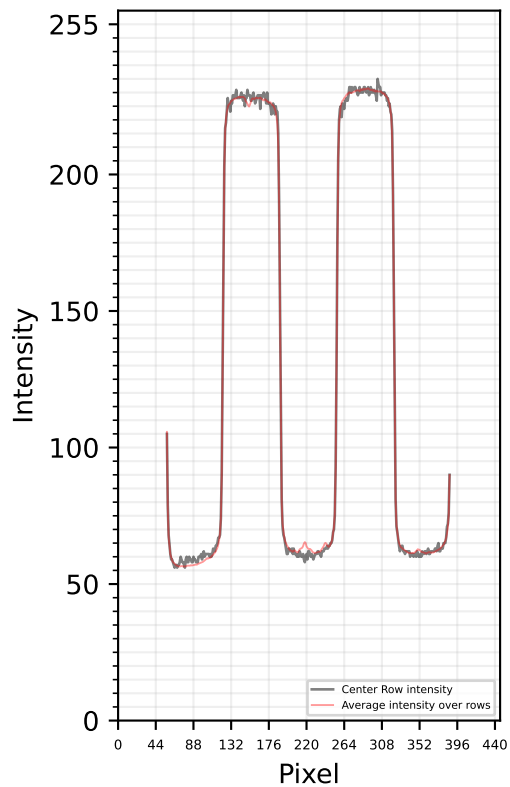
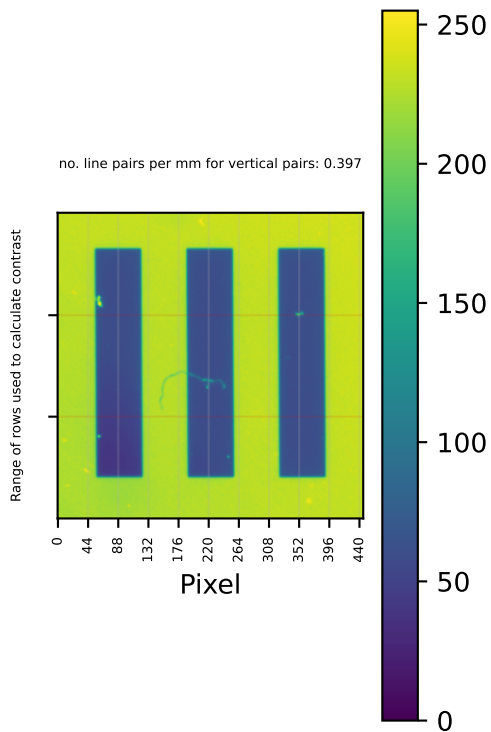
no. line pairs per mm for vertical pairs: 0.281

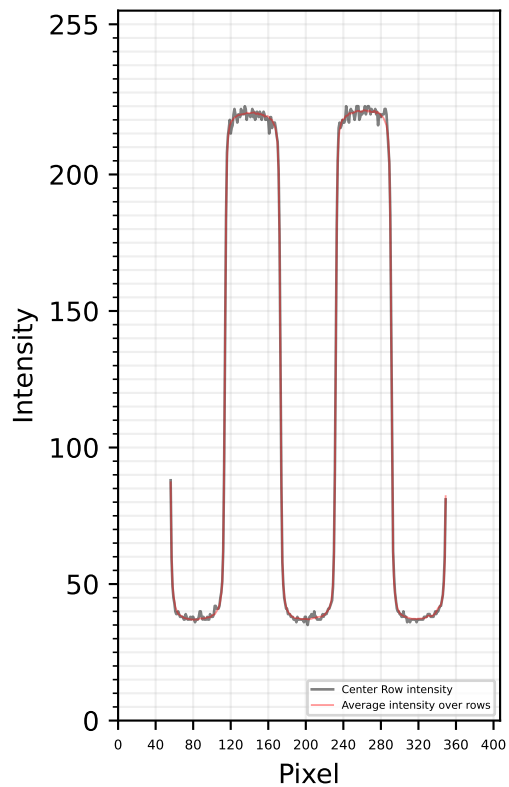
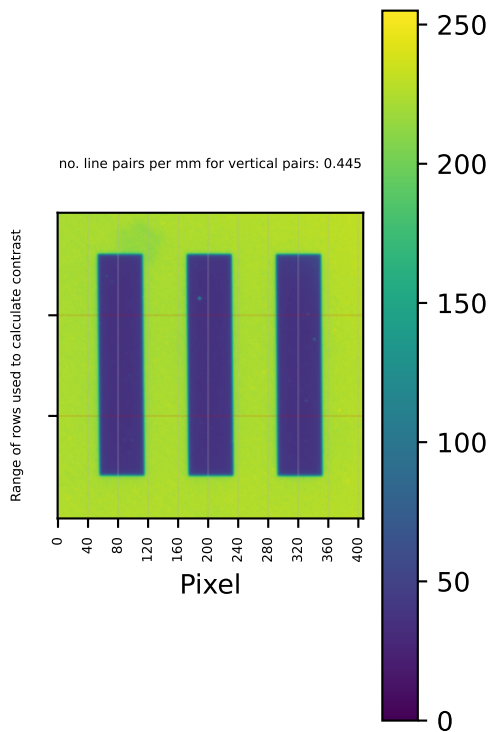


no. line pairs per mm for vertical pairs: 0.315



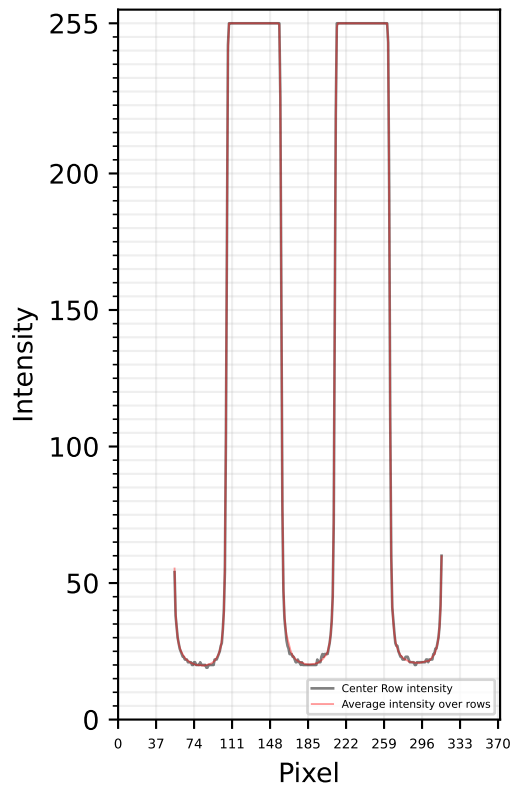
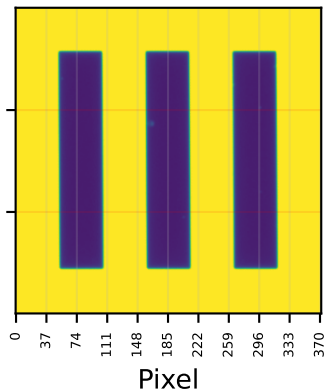




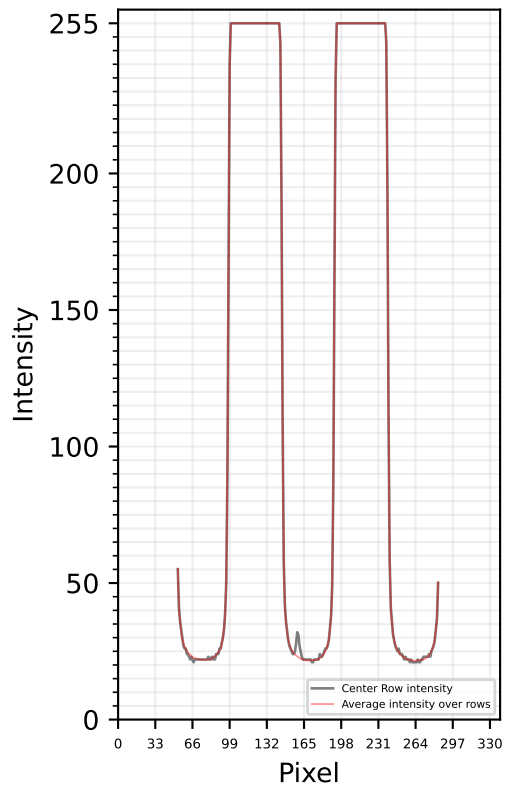
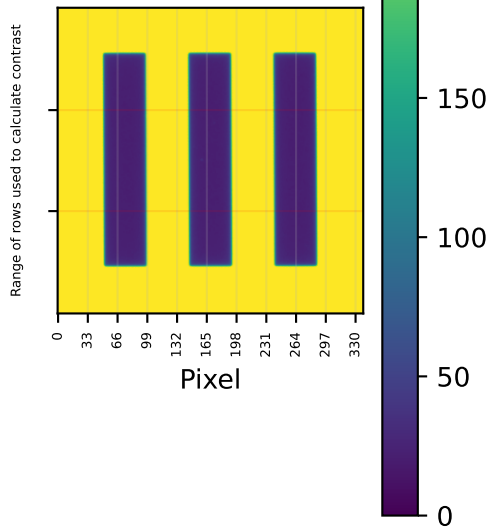


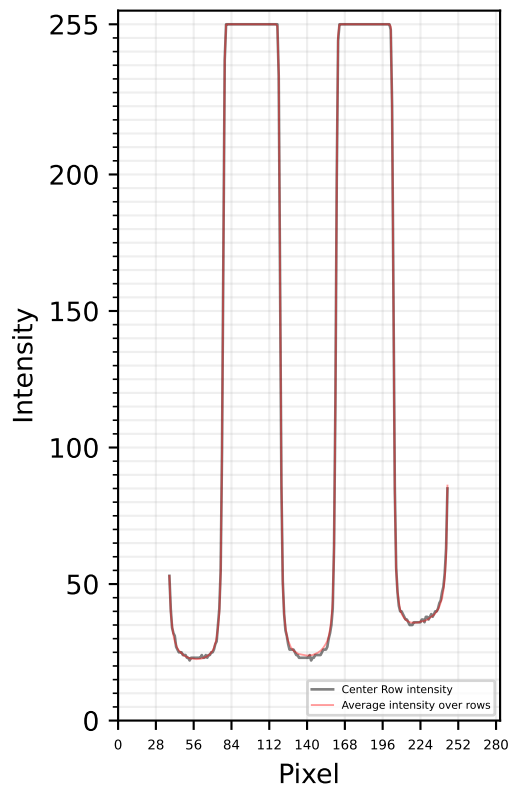
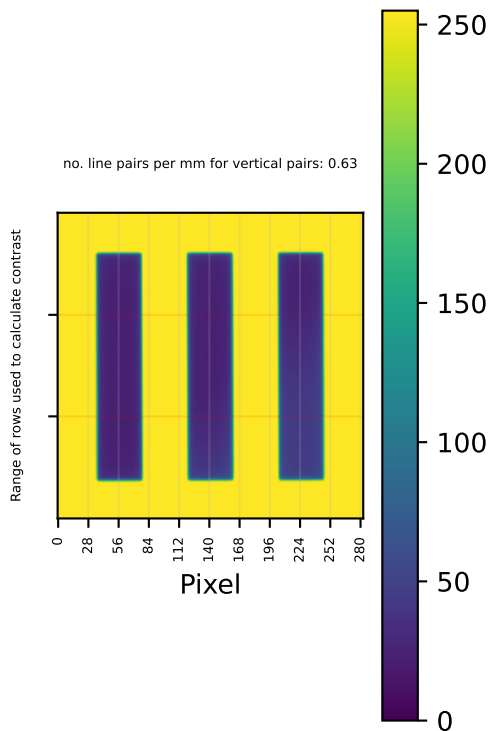
no. line pairs per mm for vertical pairs: 0.5

Range of rows used to calculate contrast

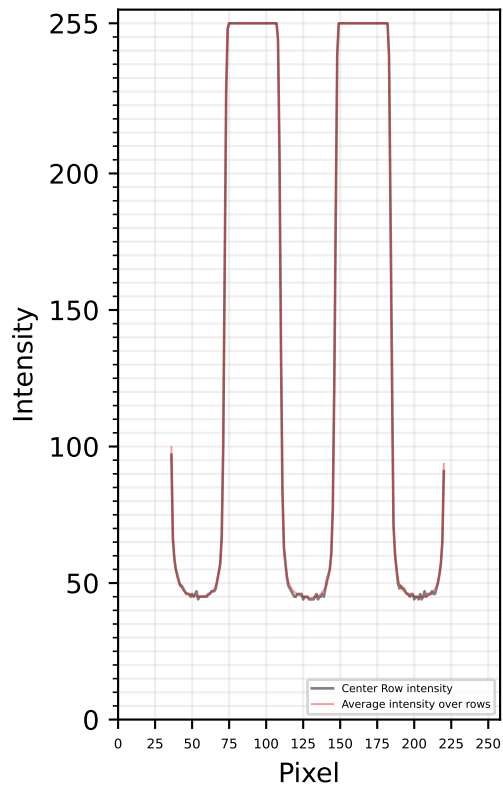
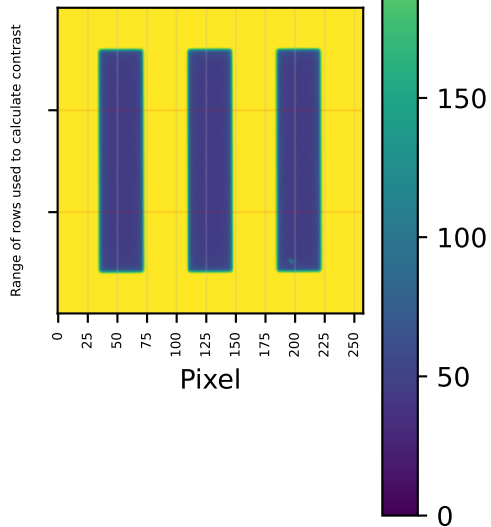


no. line pairs per mm for vertical pairs: 0.561

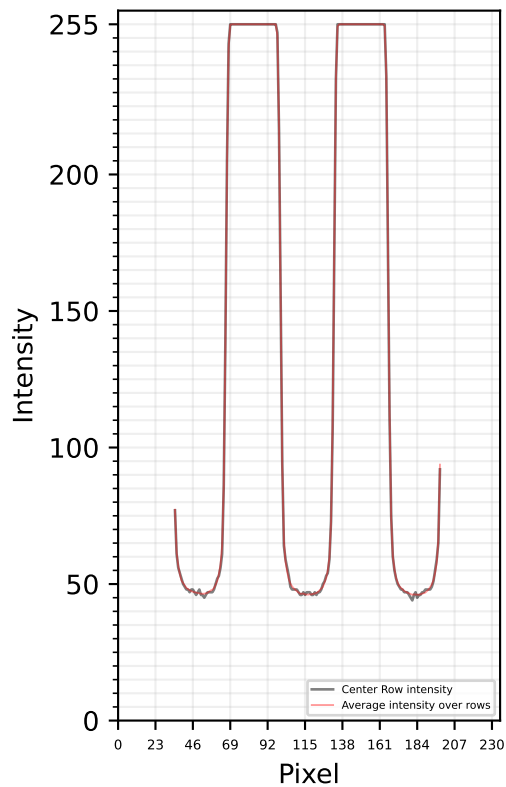
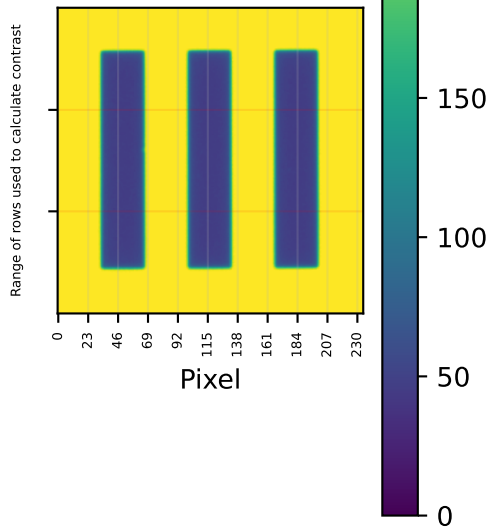


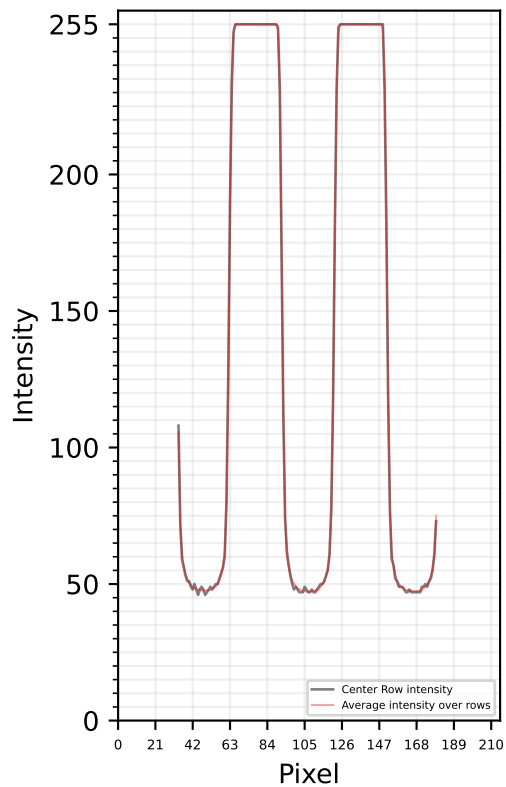
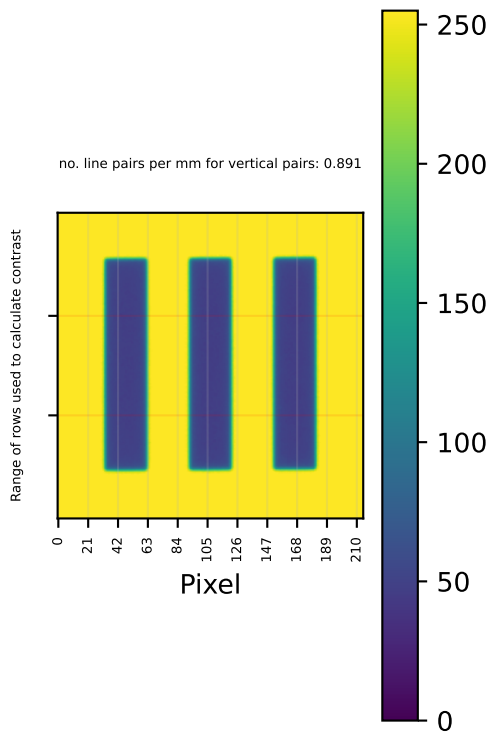


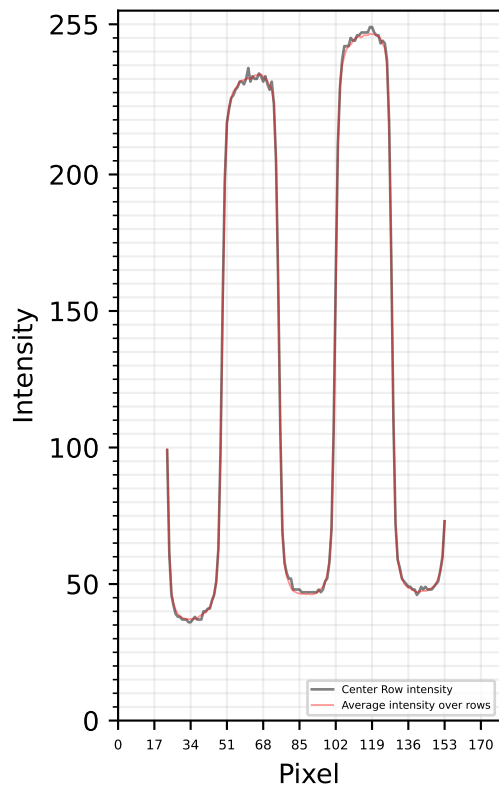
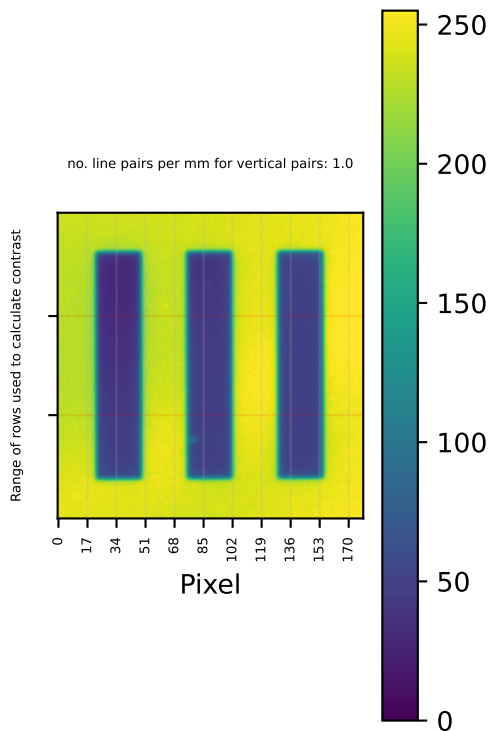
no. line pairs per mm for vertical pairs: 0.707

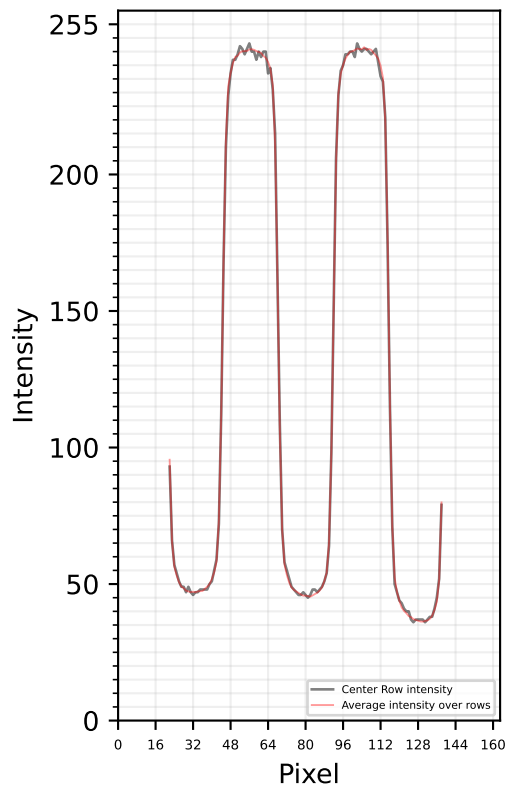
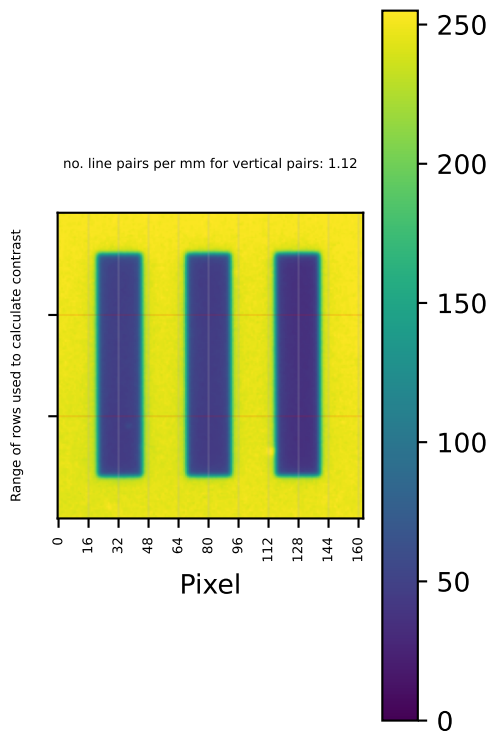


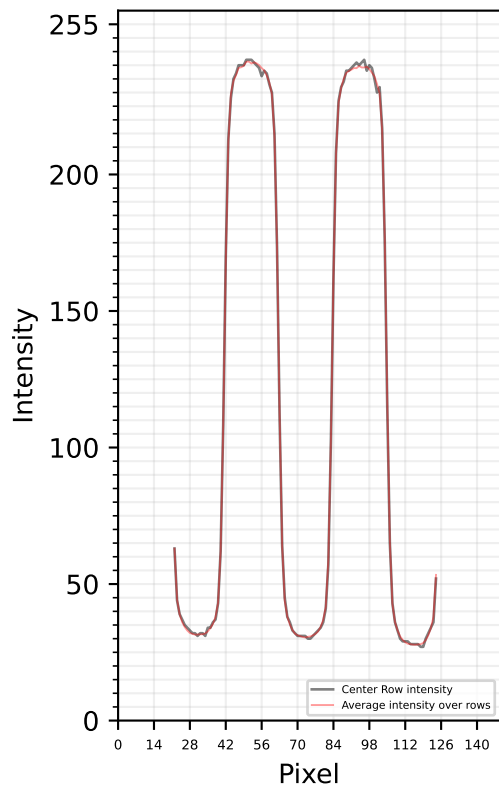
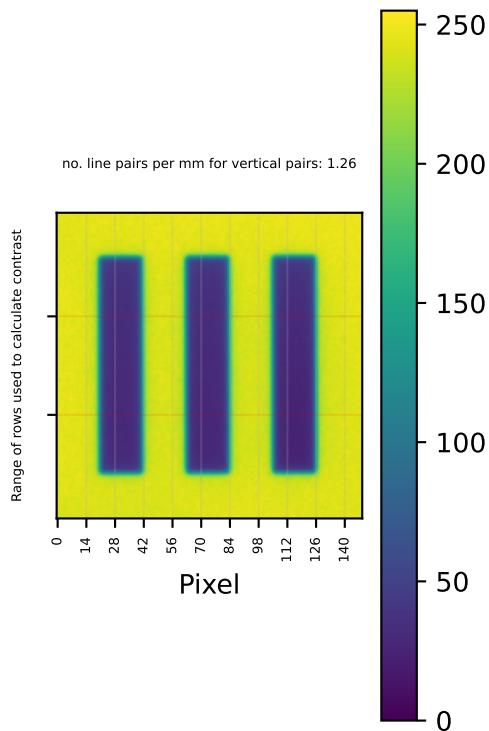
no. line pairs per mm for vertical pairs: 0.794

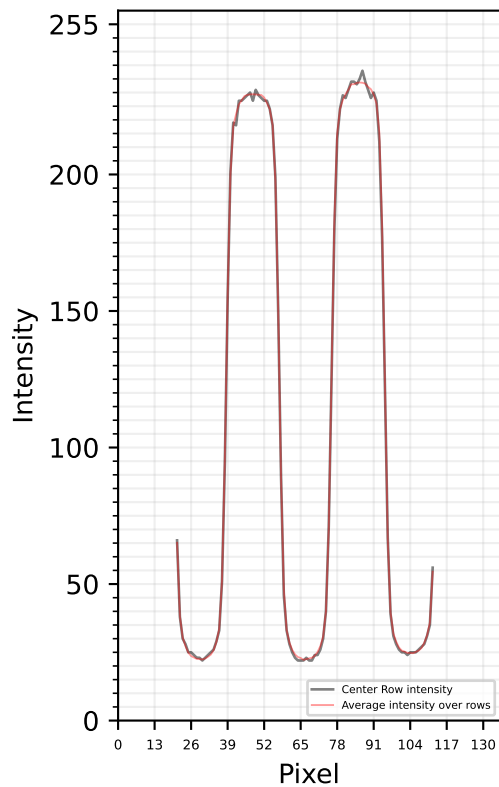
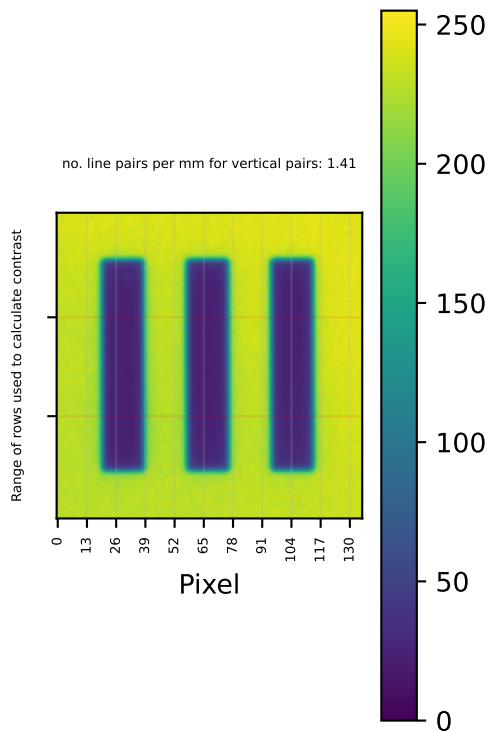


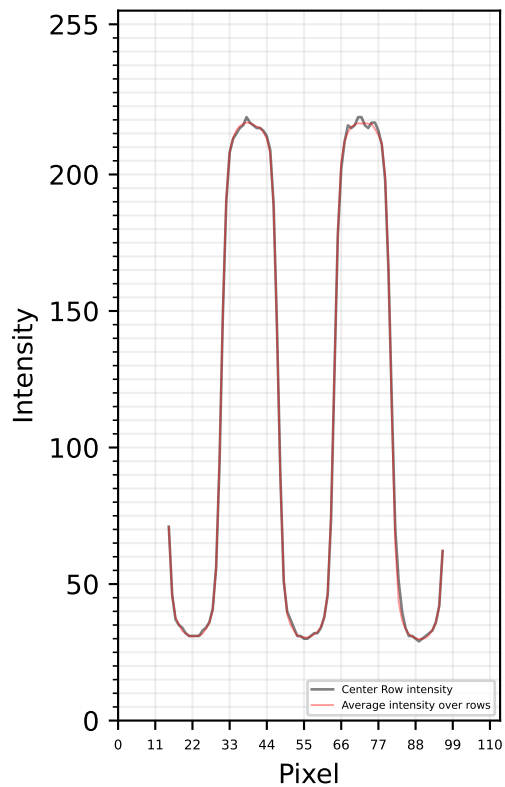
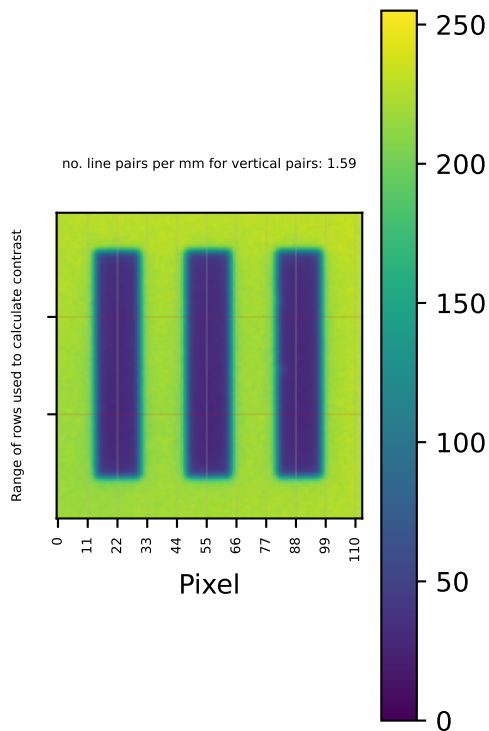


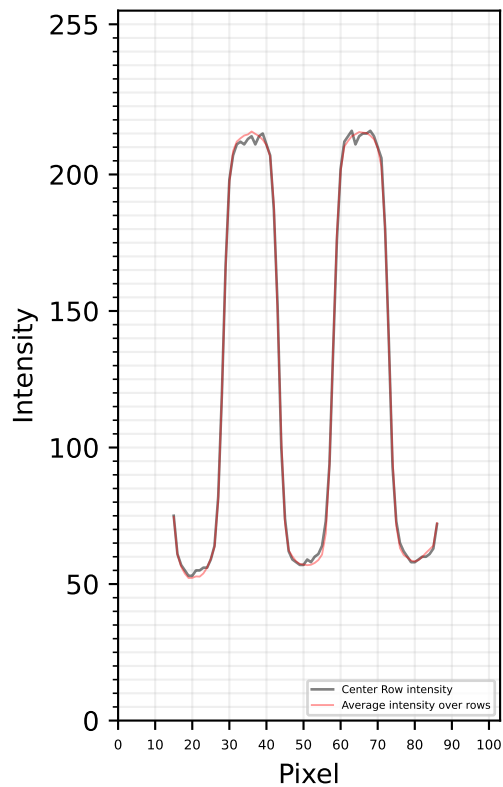
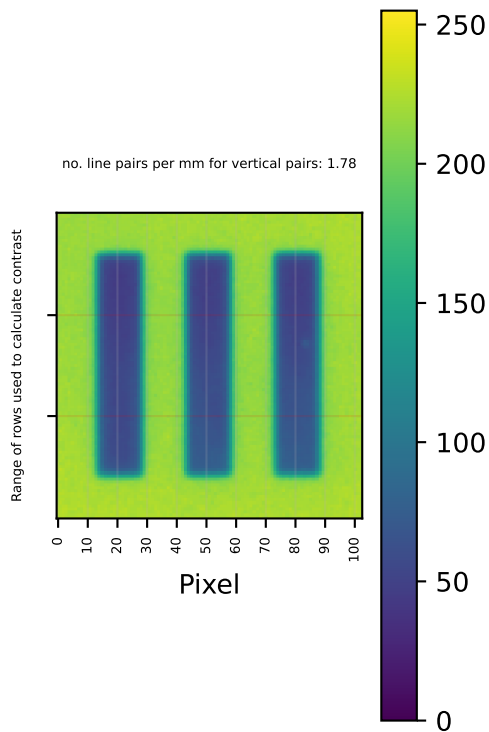


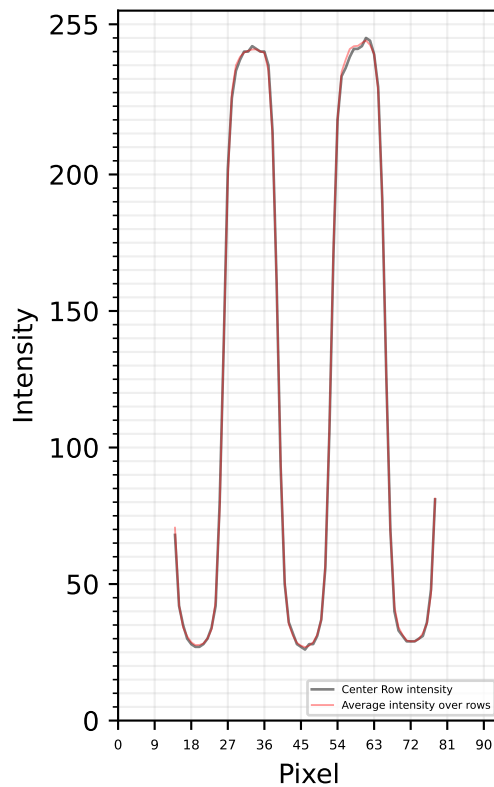
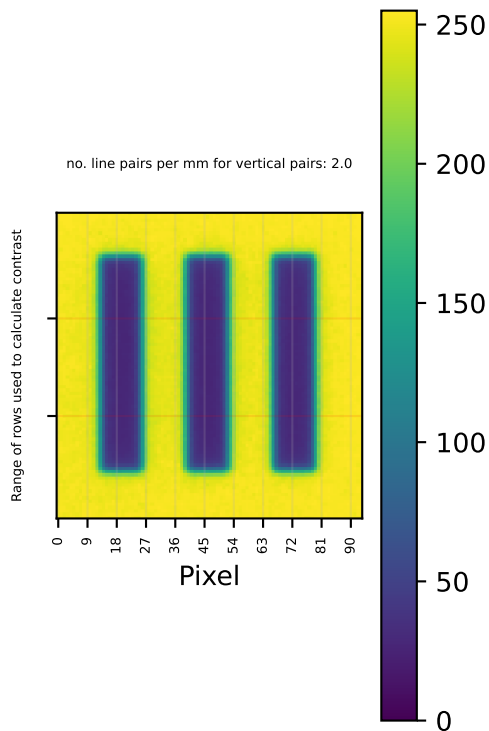


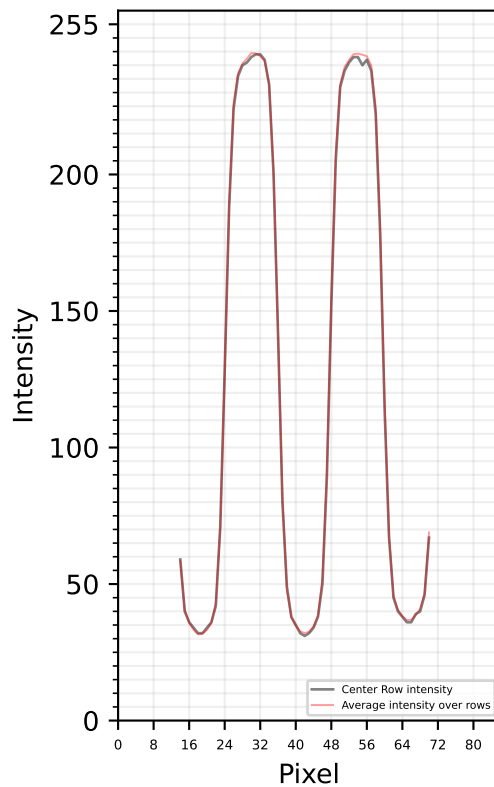
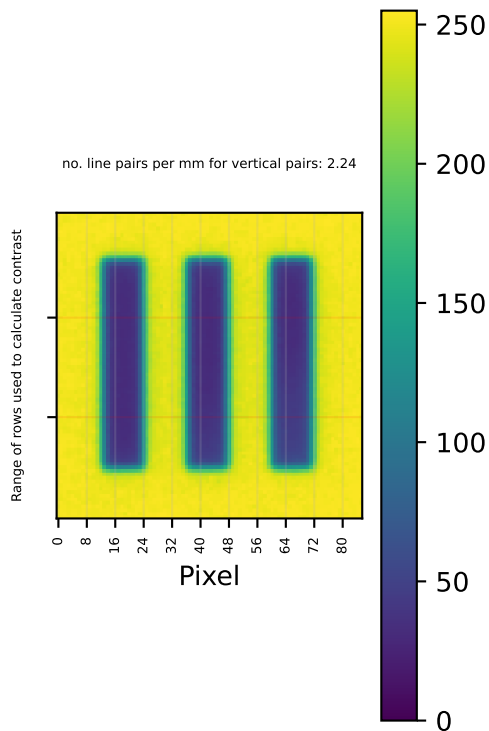


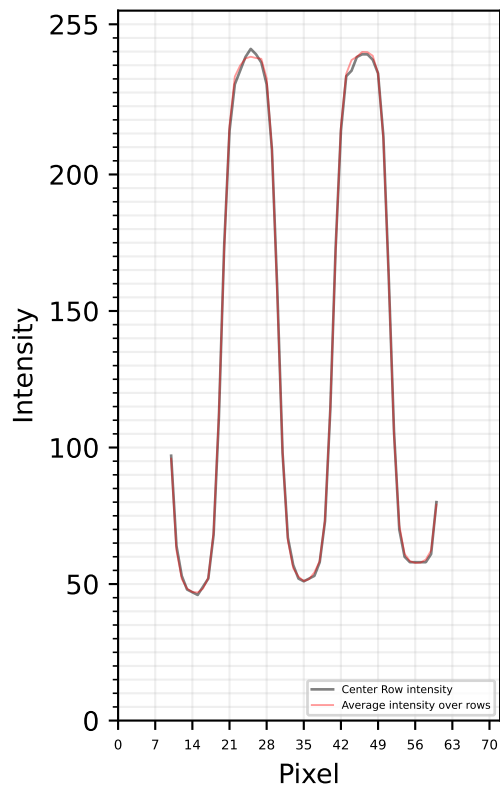
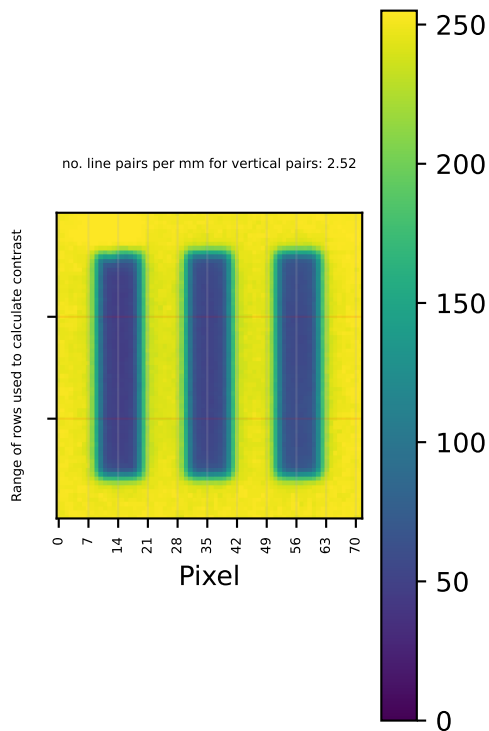


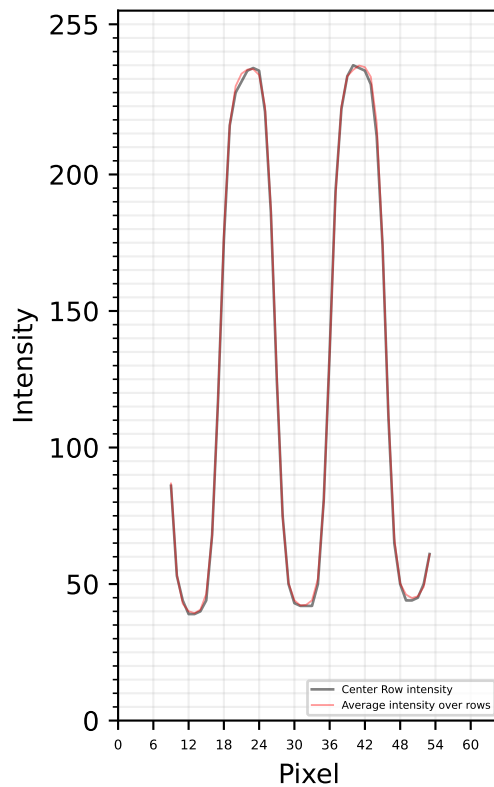
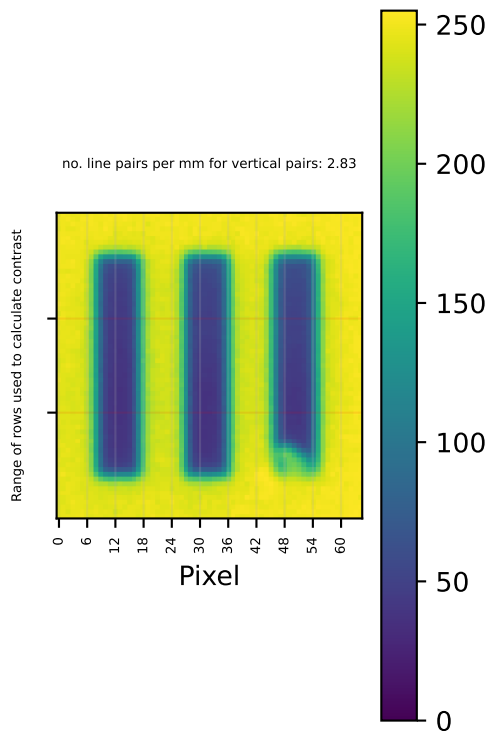


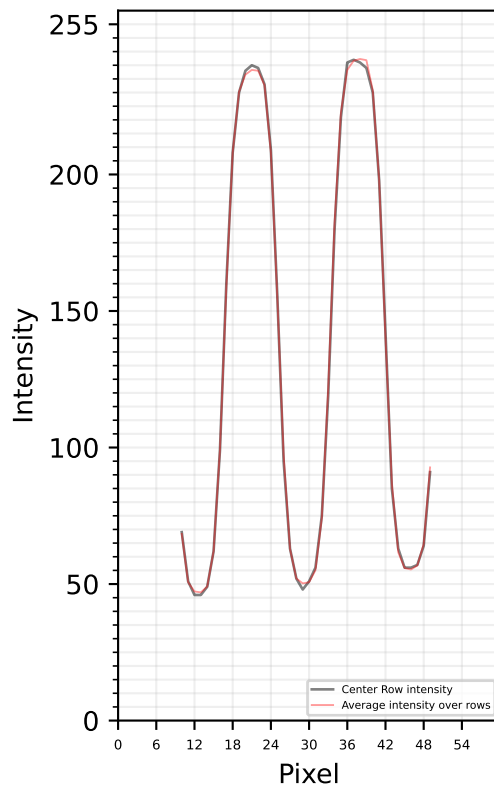
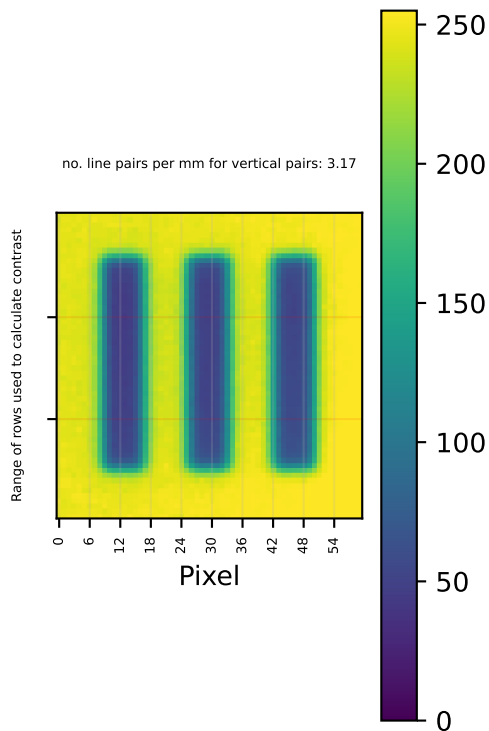


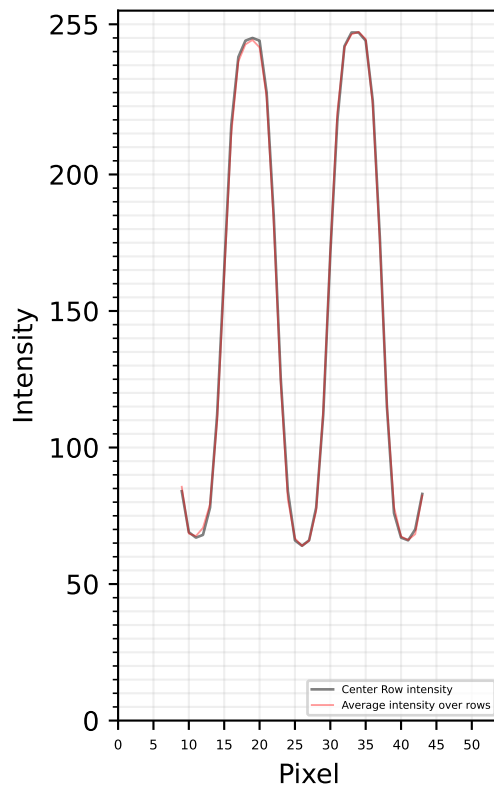
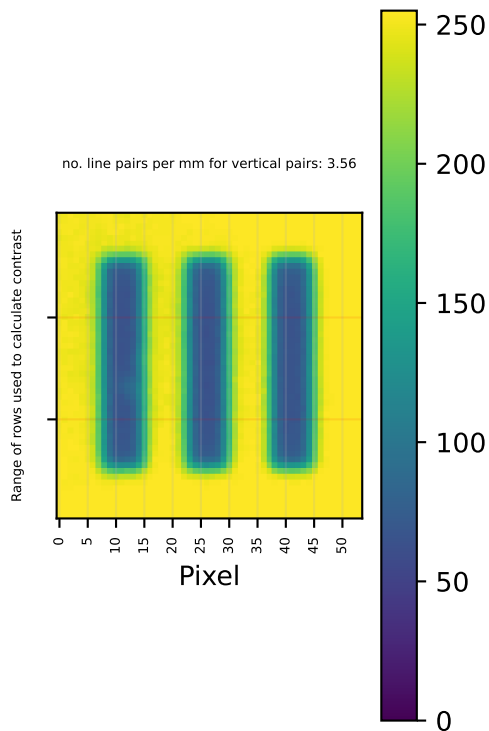


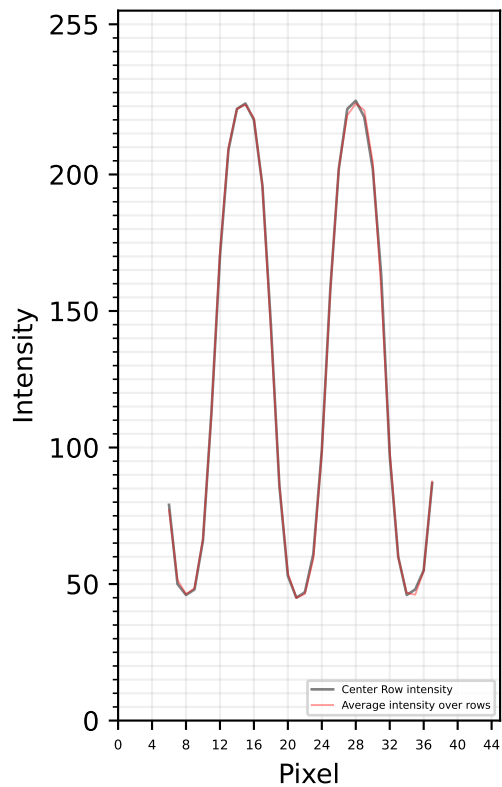
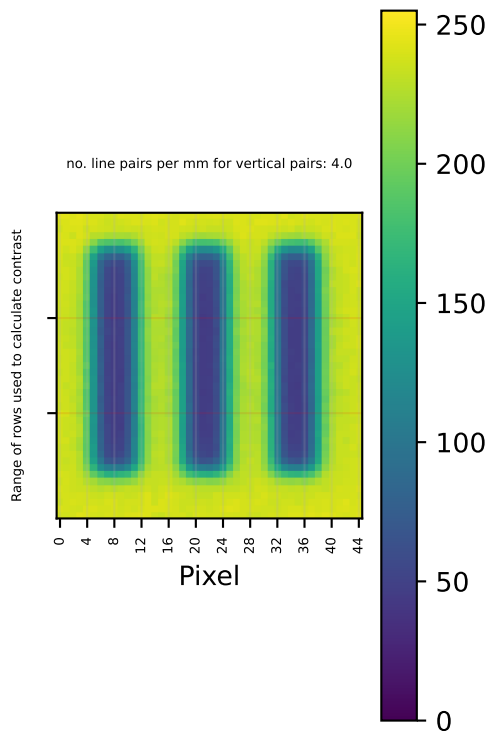


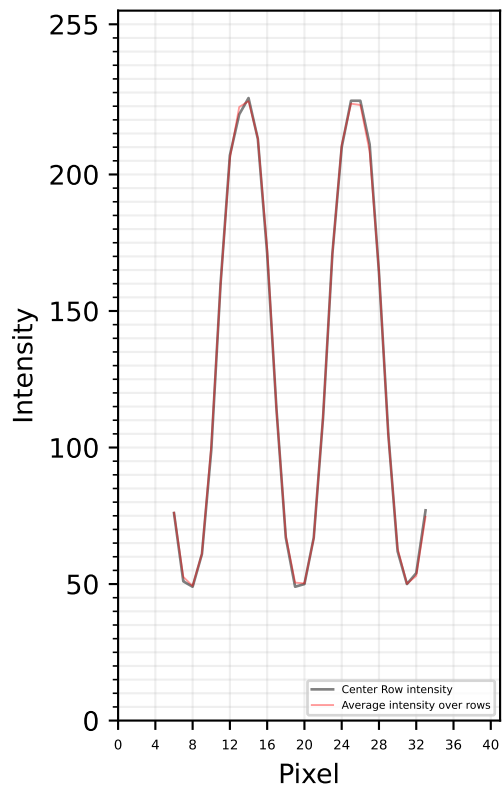
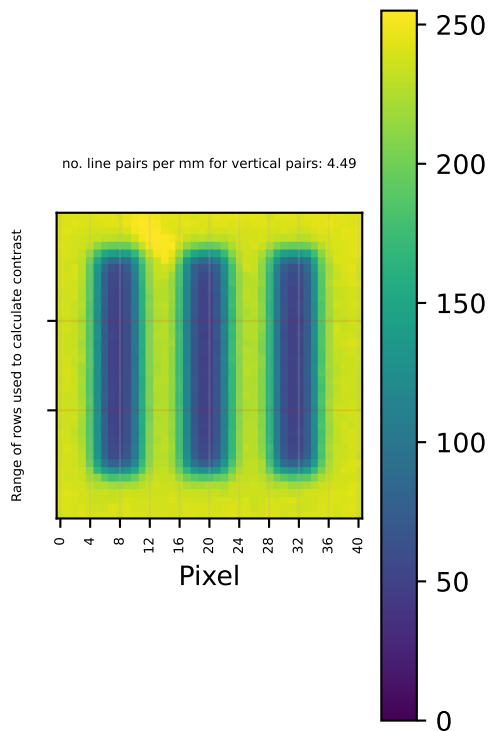


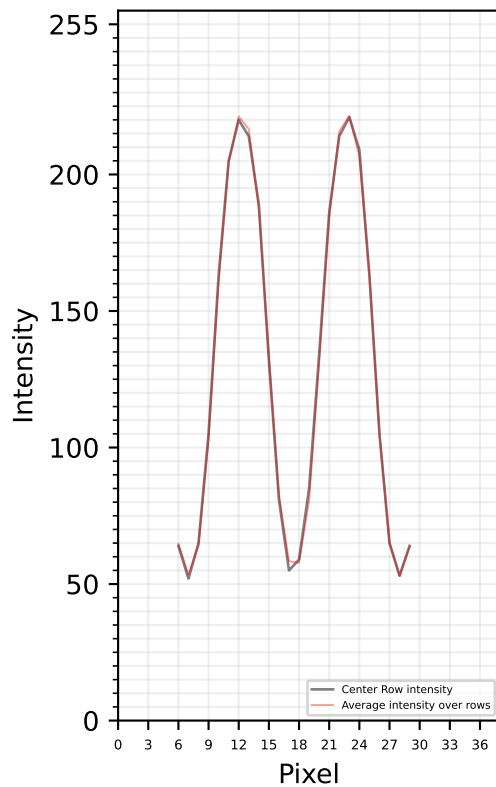
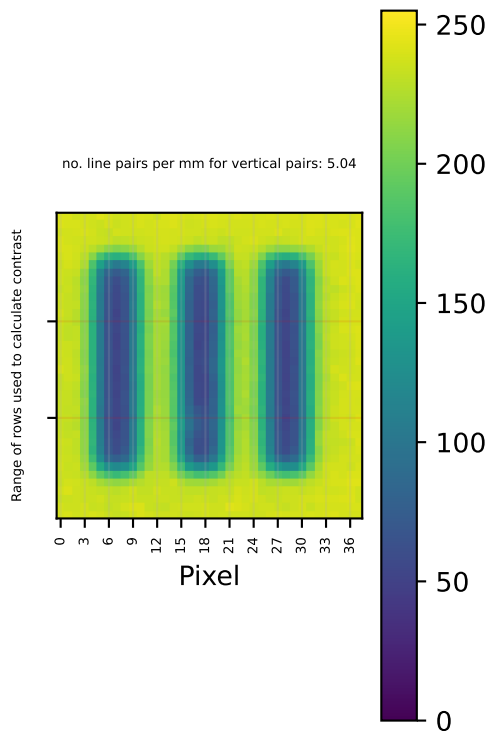


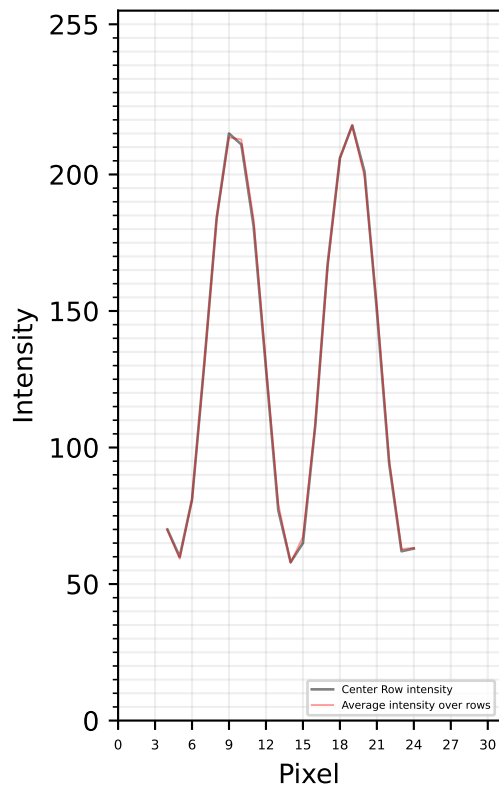
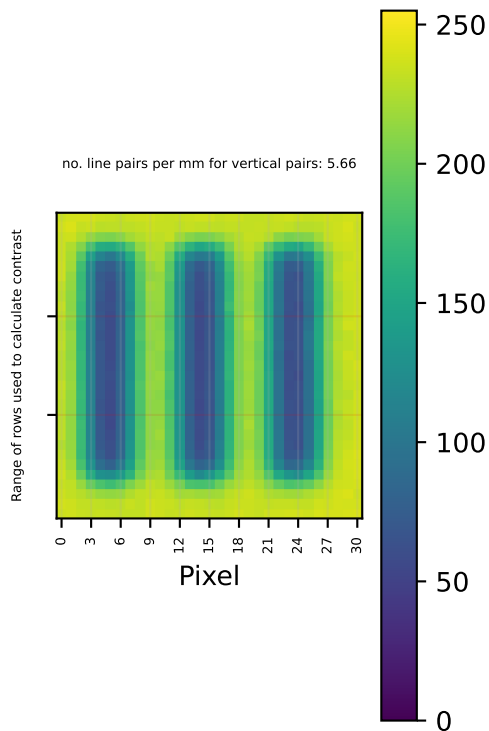


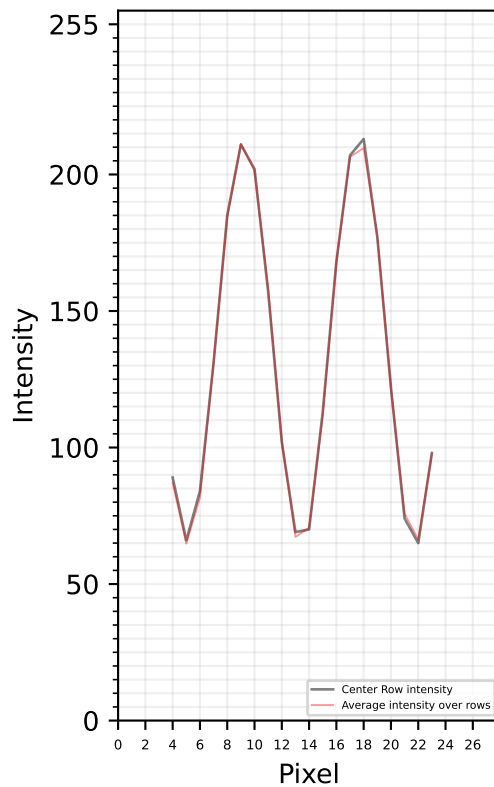
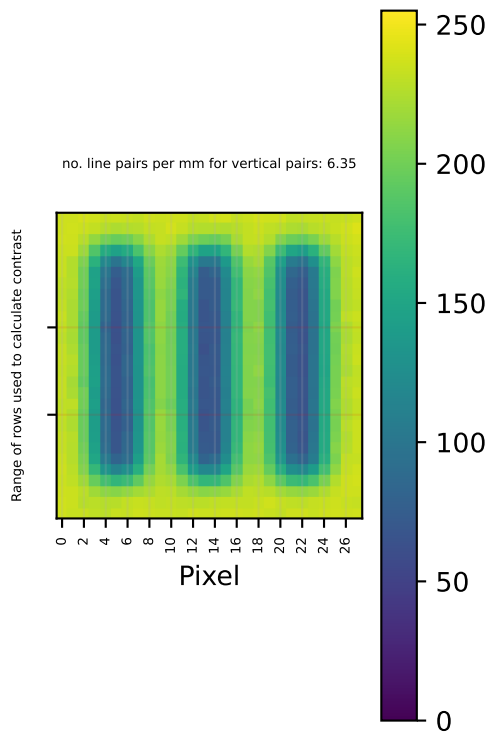


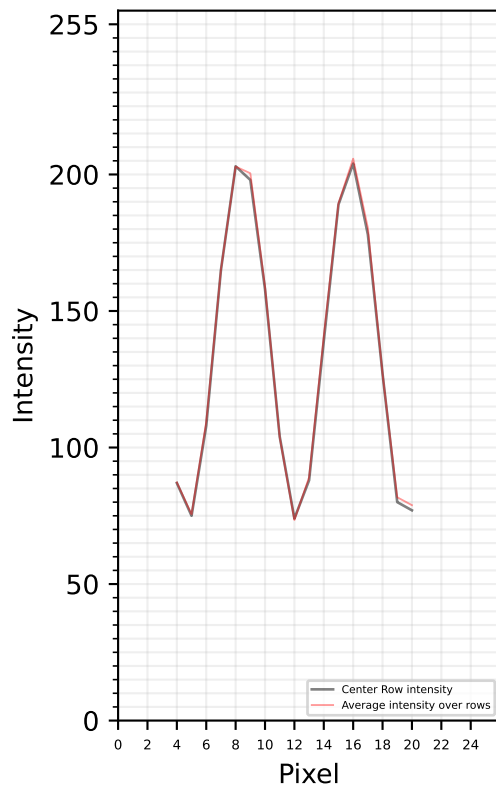
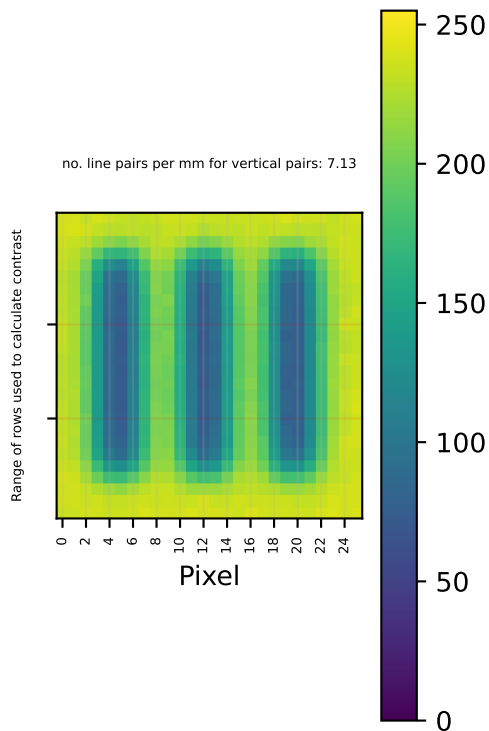




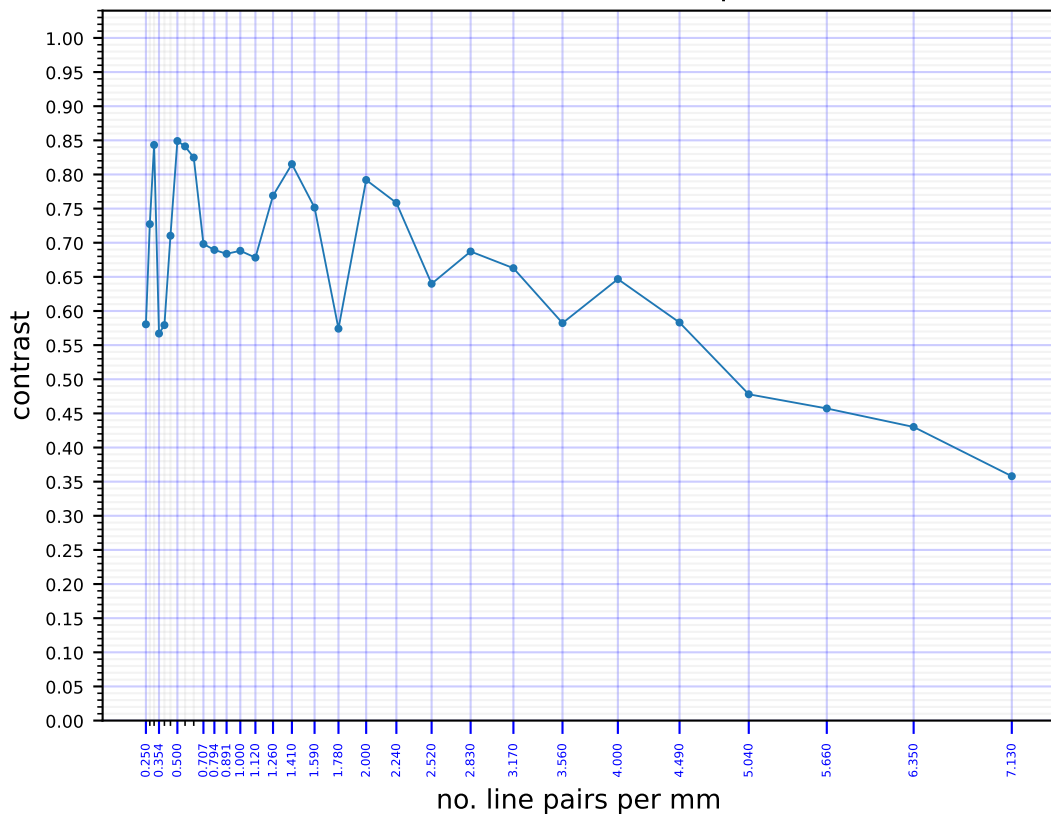




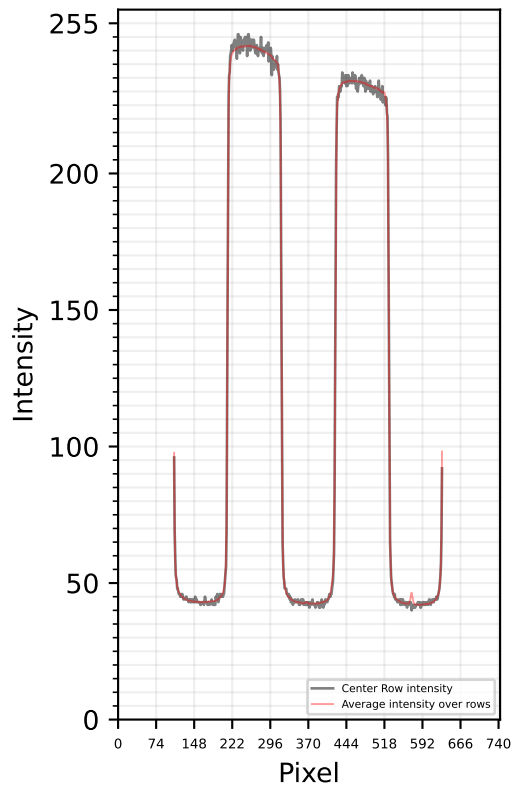
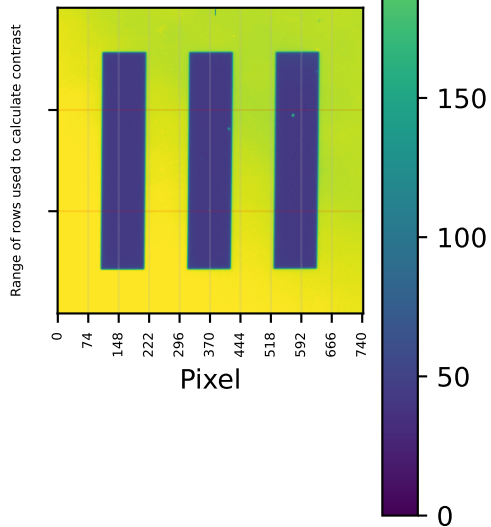




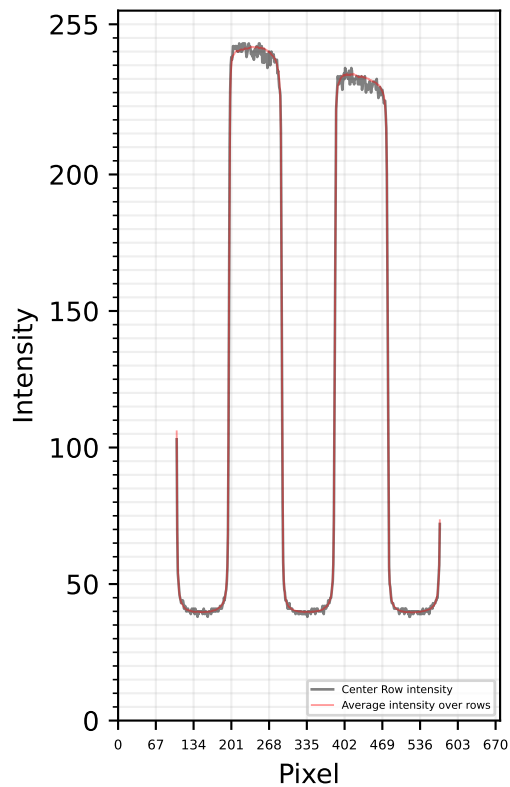
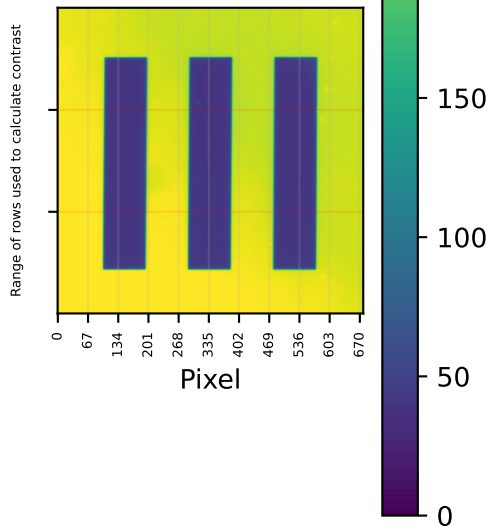
MTF curve for vertical pairs



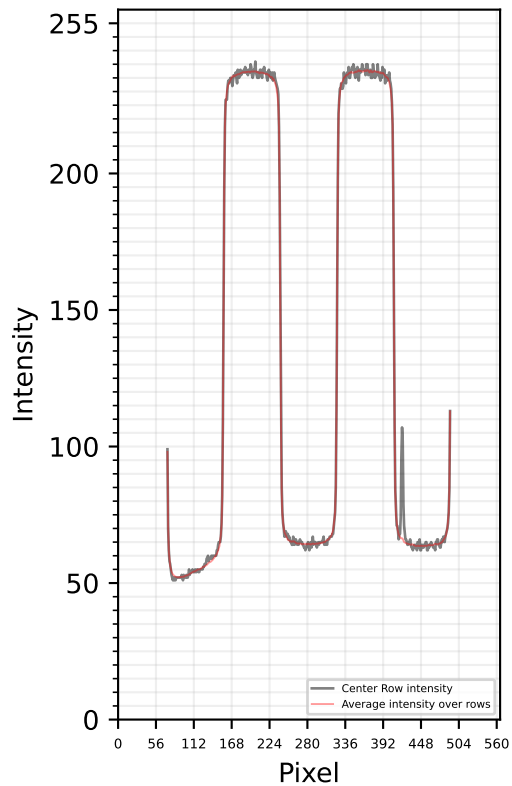
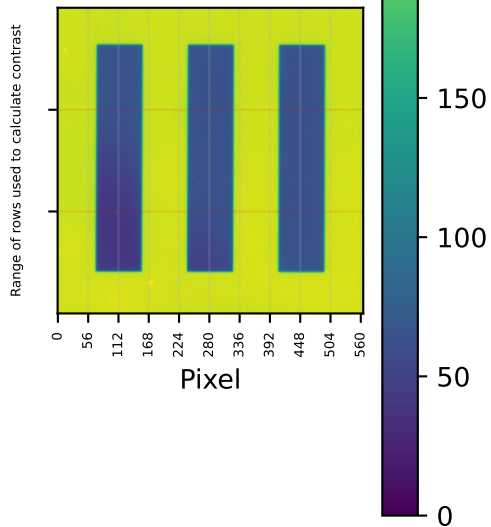
no. line pairs per mm for horizontal pairs: 0.25



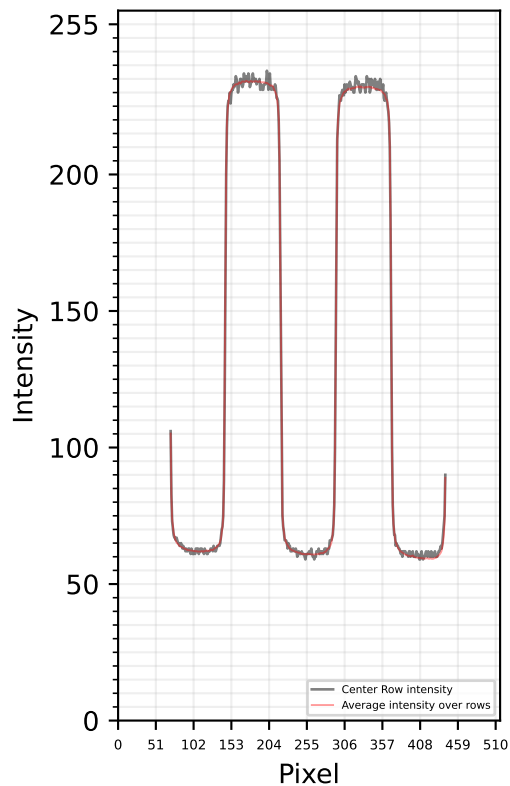
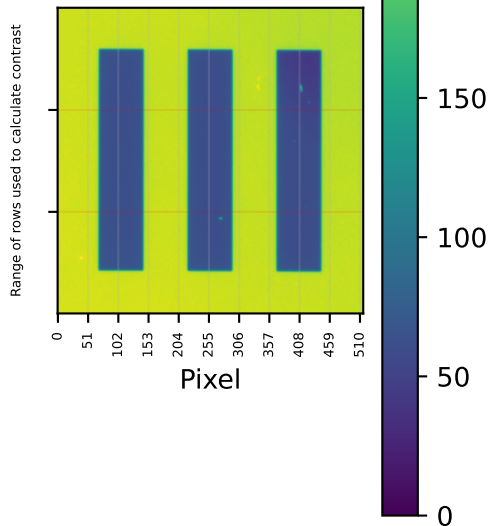
no. line pairs per mm for horizontal pairs: 0.281



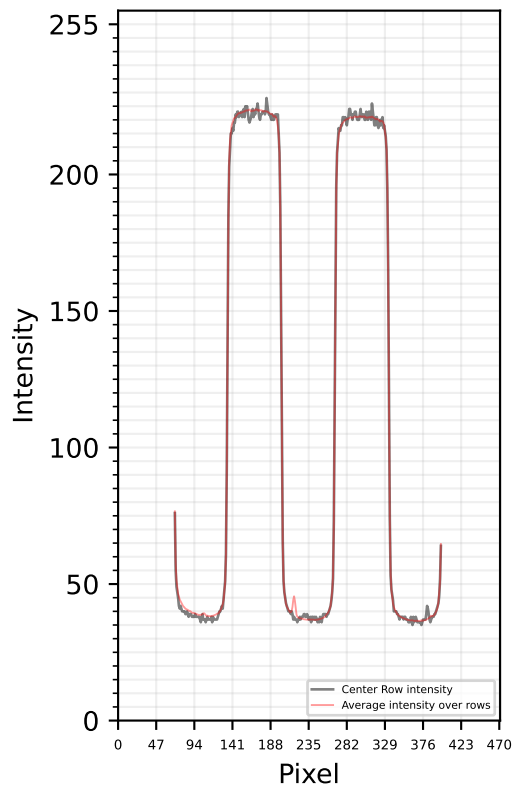
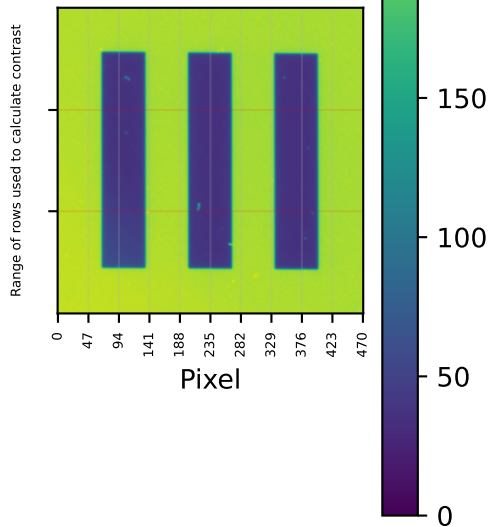
no. line pairs per mm for horizontal pairs: 0.315



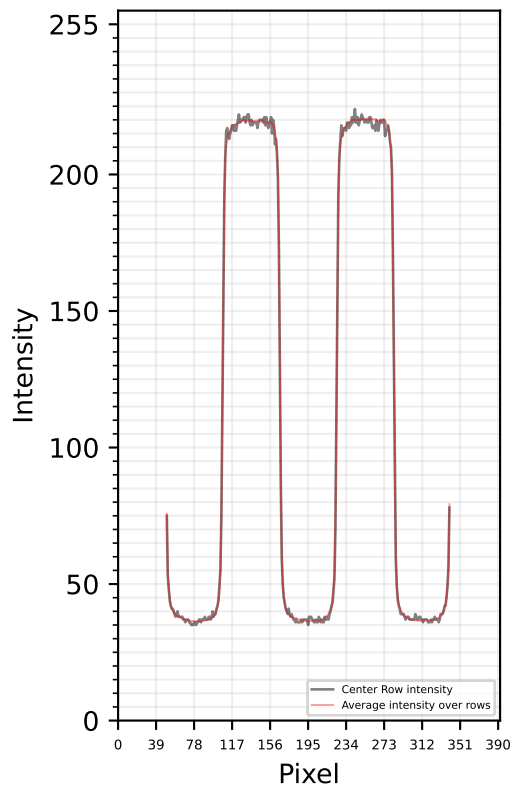
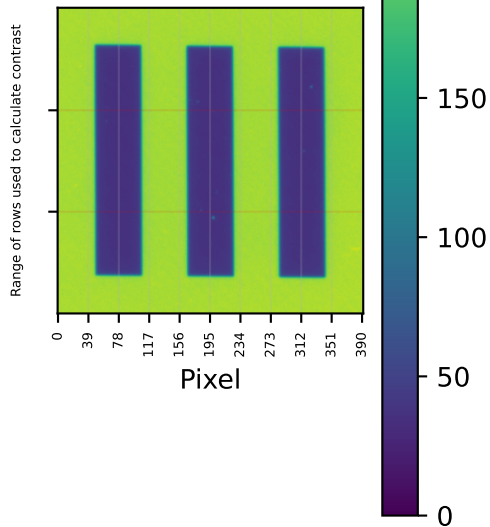
no. line pairs per mm for horizontal pairs: 0.354

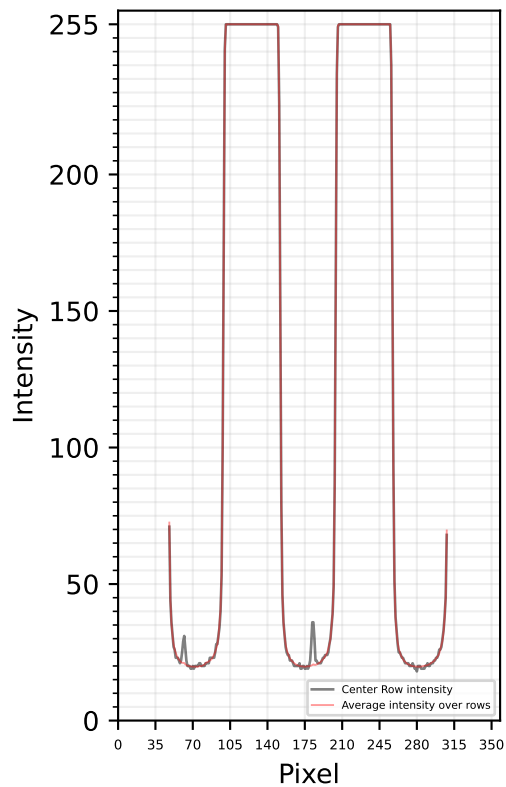
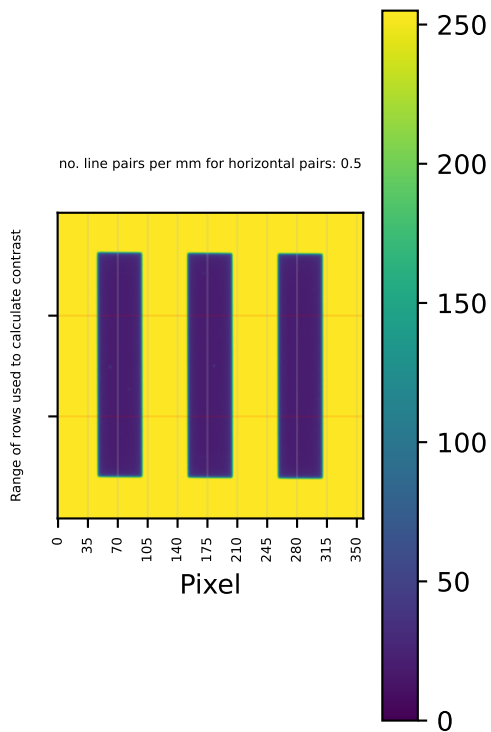


no. line pairs per mm for horizontal pairs: 0.397

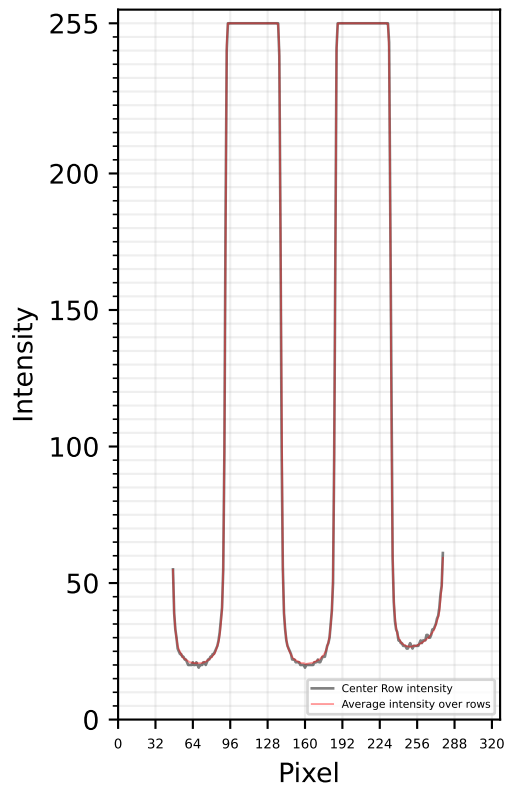
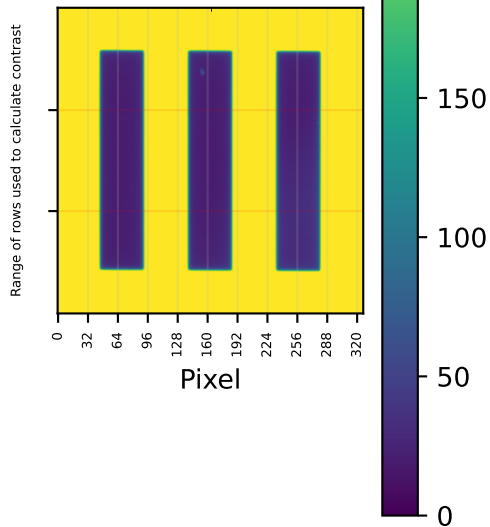


no. line pairs per mm for horizontal pairs: 0.445

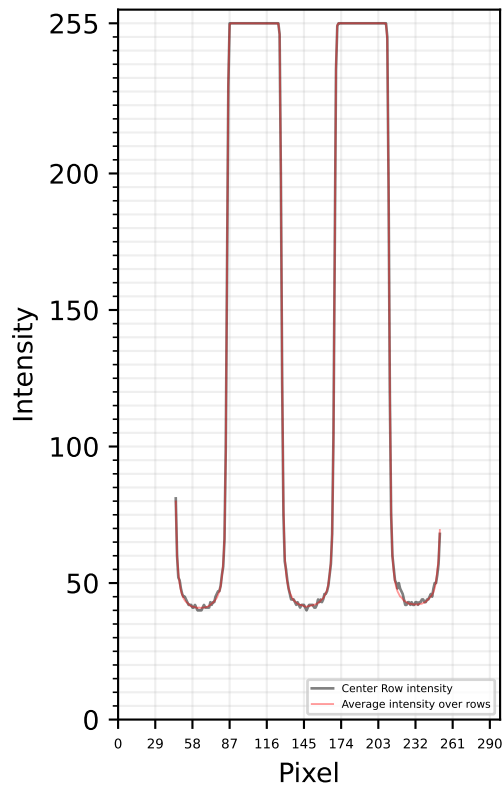
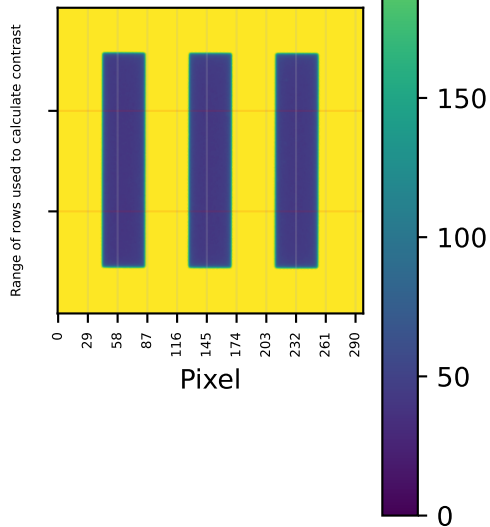




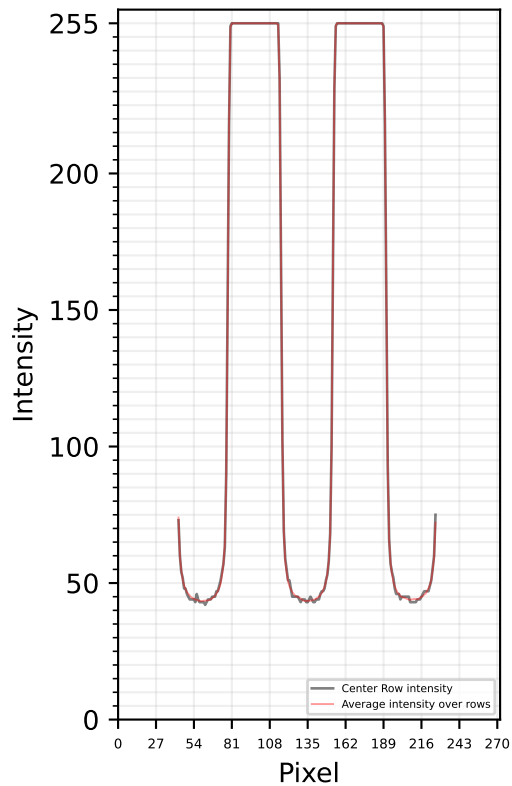
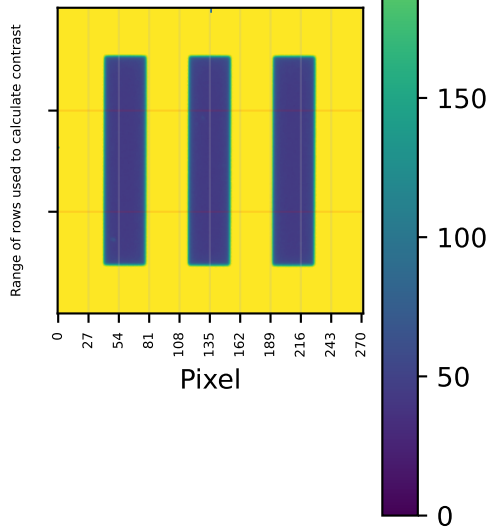
no. line pairs per mm for horizontal pairs: 0.561



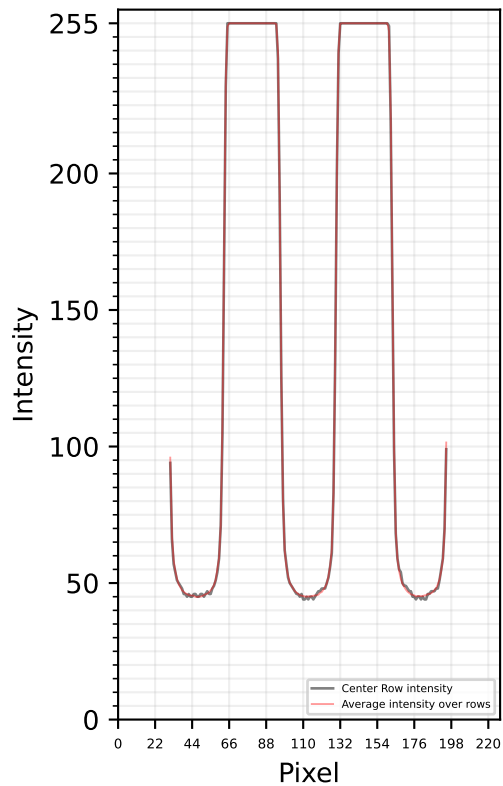
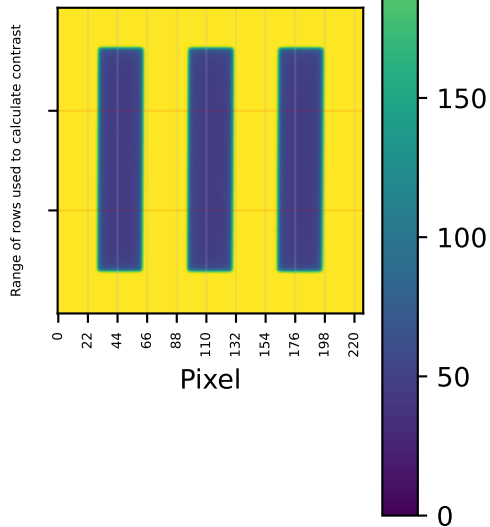
no. line pairs per mm for horizontal pairs: 0.63



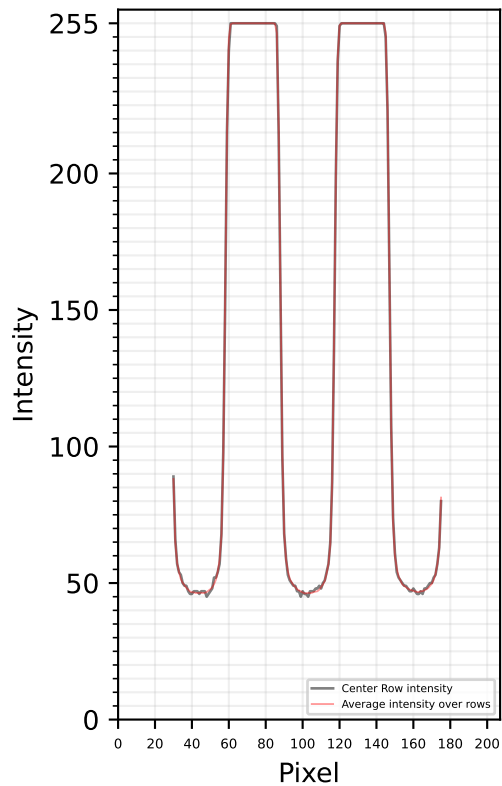
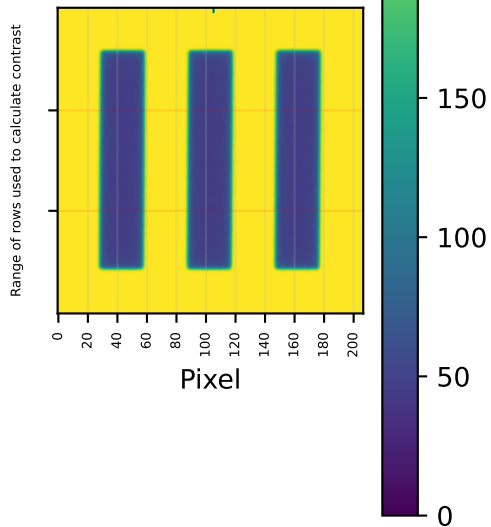
no. line pairs per mm for horizontal pairs: 0.707

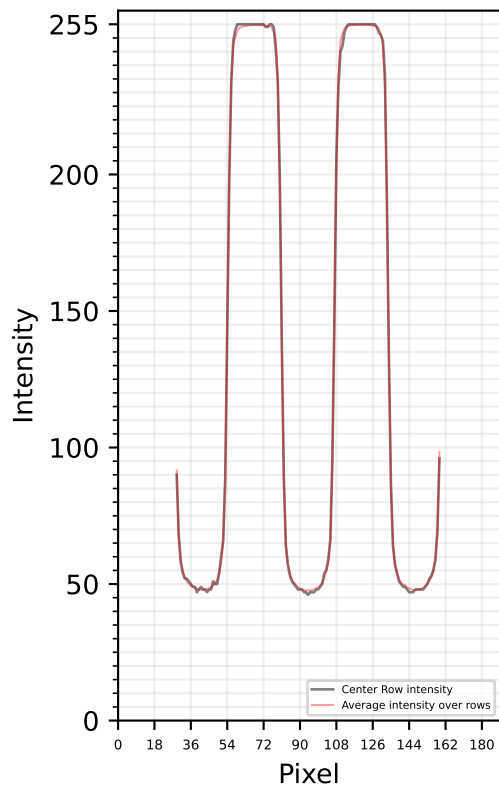
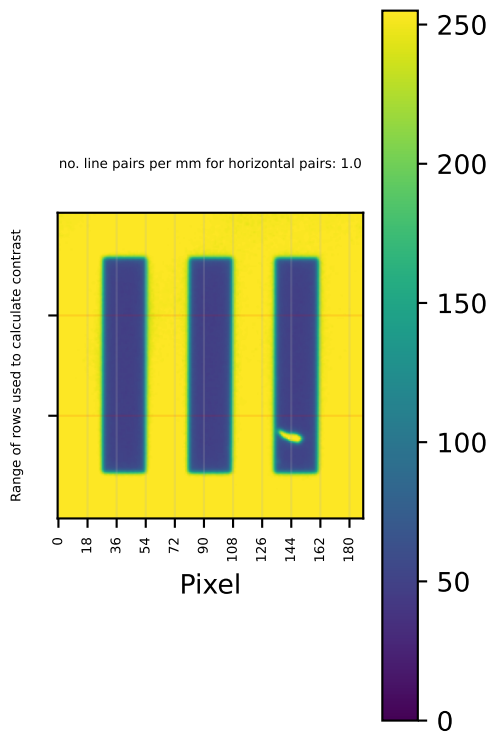


no. line pairs per mm for horizontal pairs: 0.794



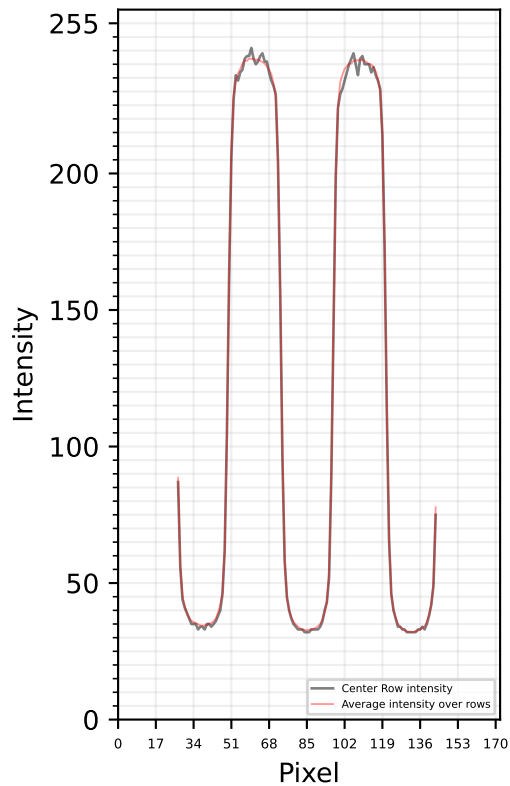
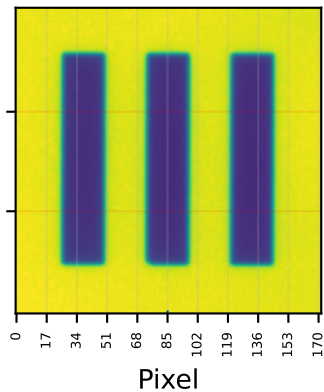
no. line pairs per mm for horizontal pairs: 0.891

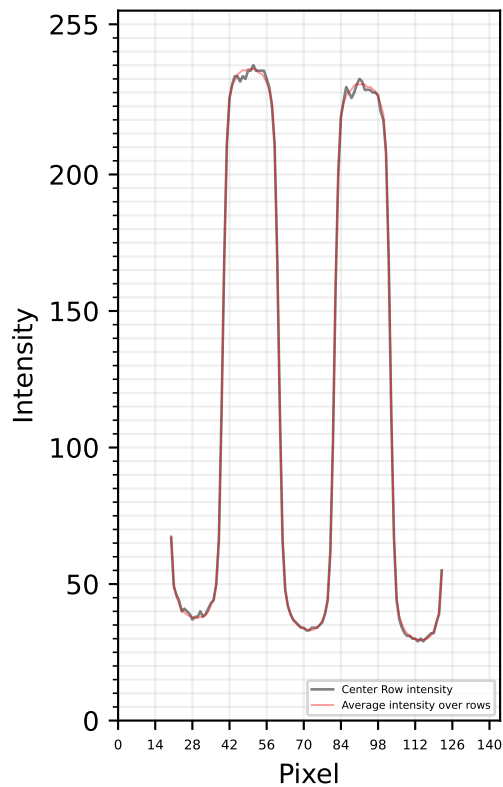
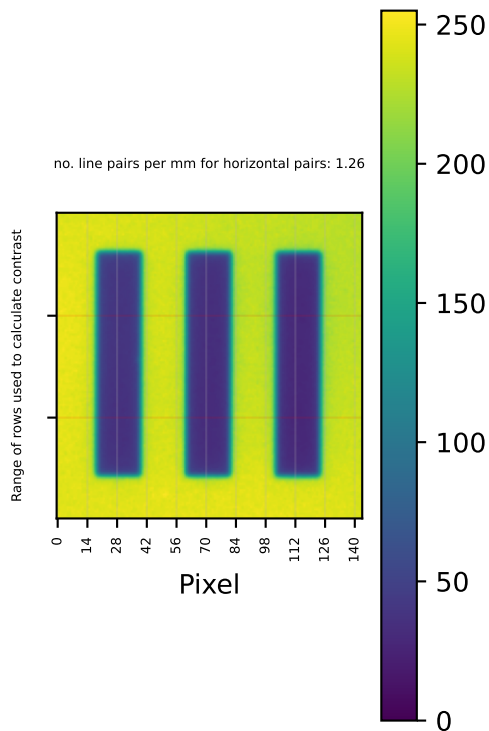


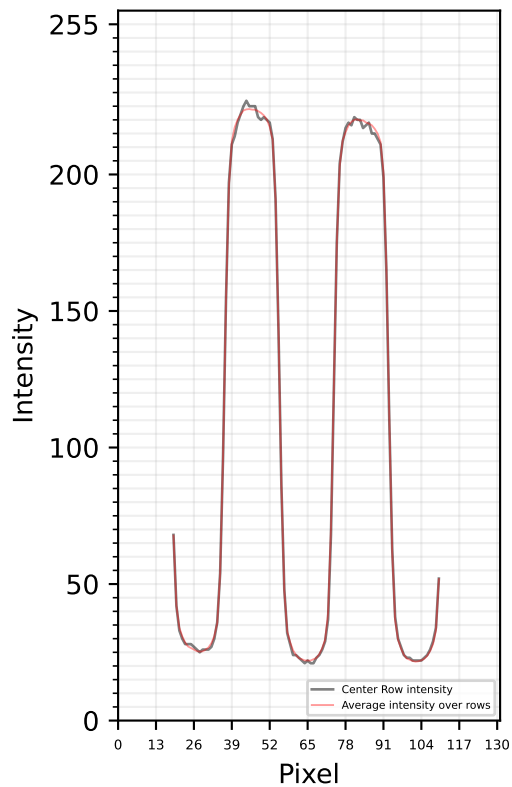
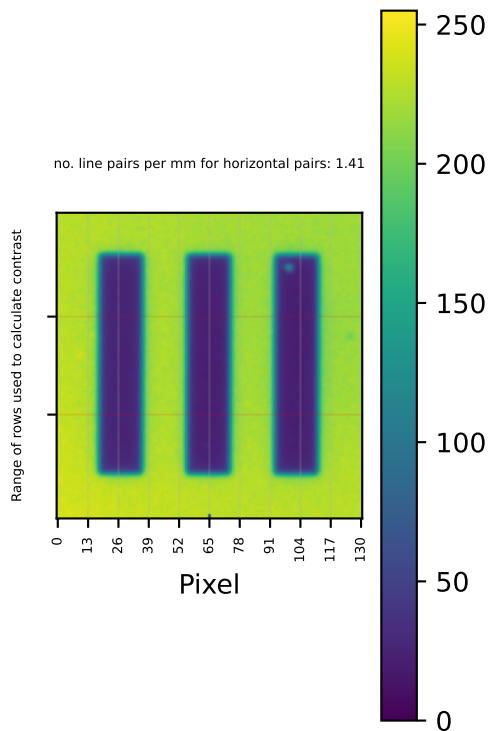


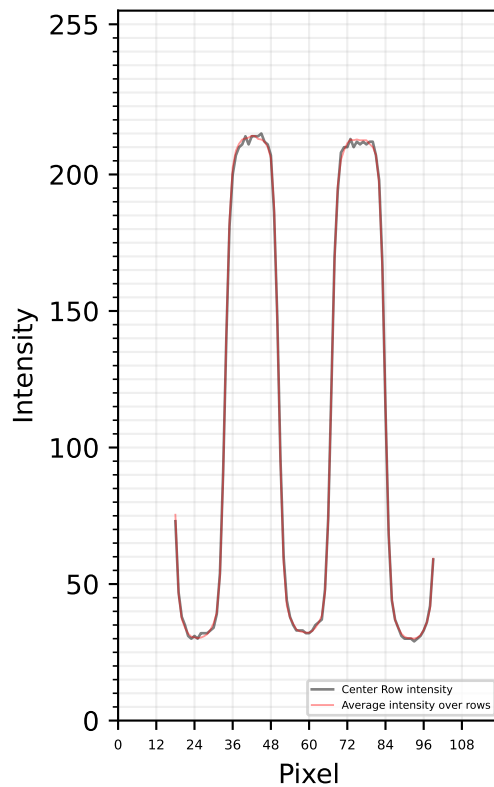
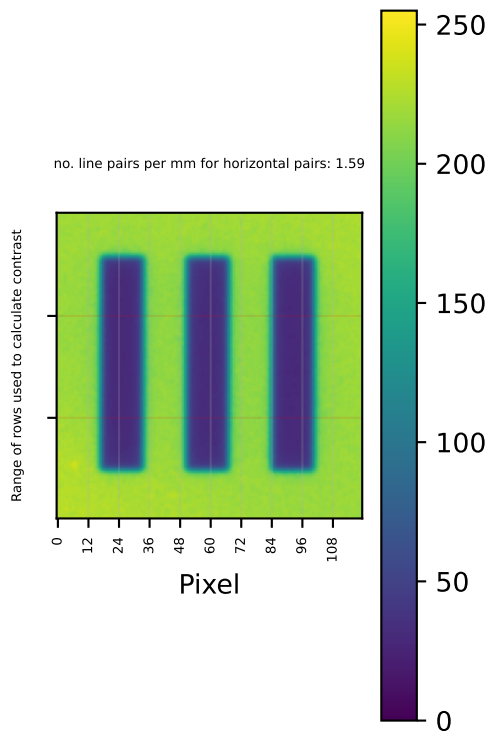
no. line pairs per mm for horizontal pairs: 1.12

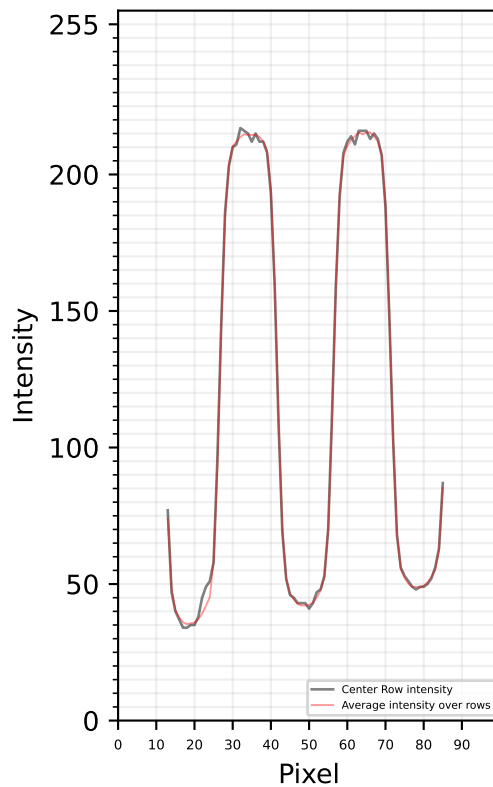
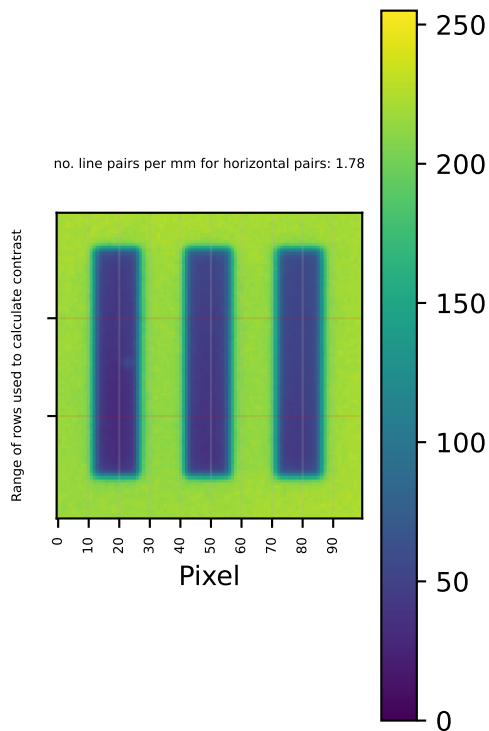
Range of rows used to calculate contrast

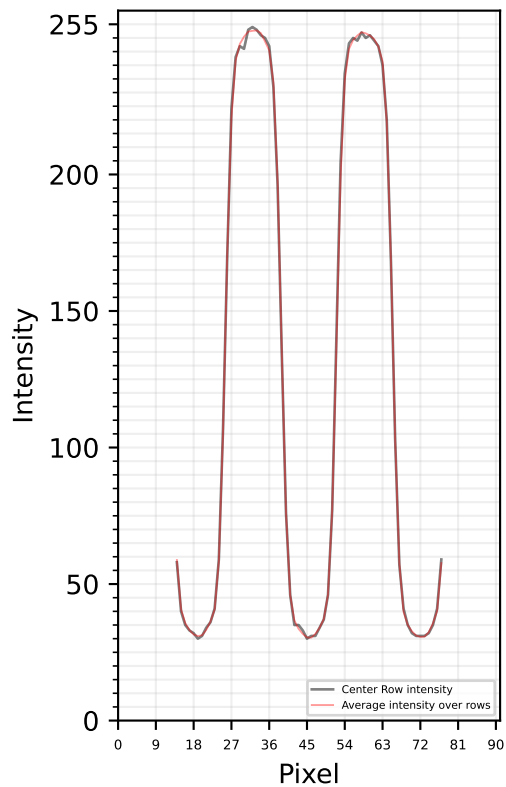
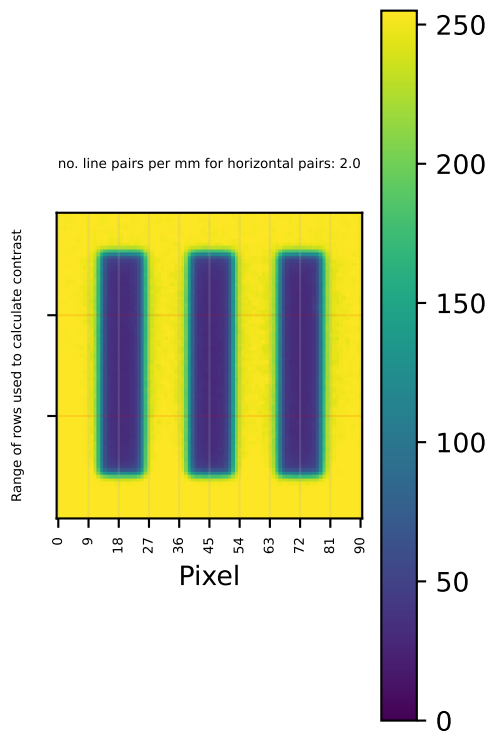


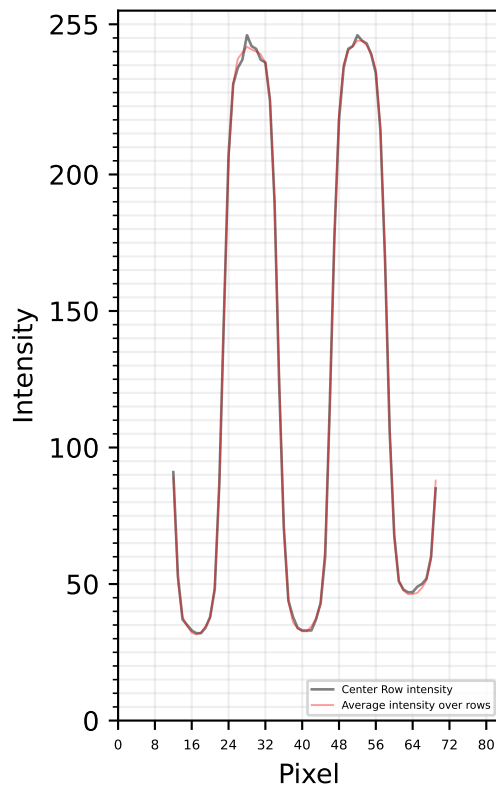
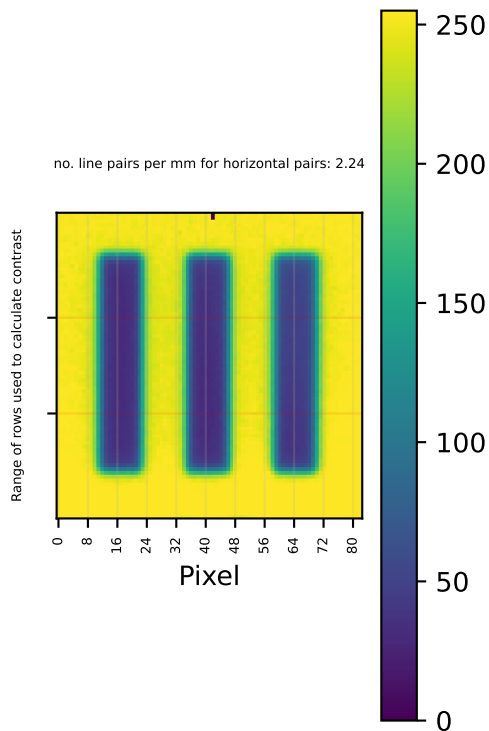


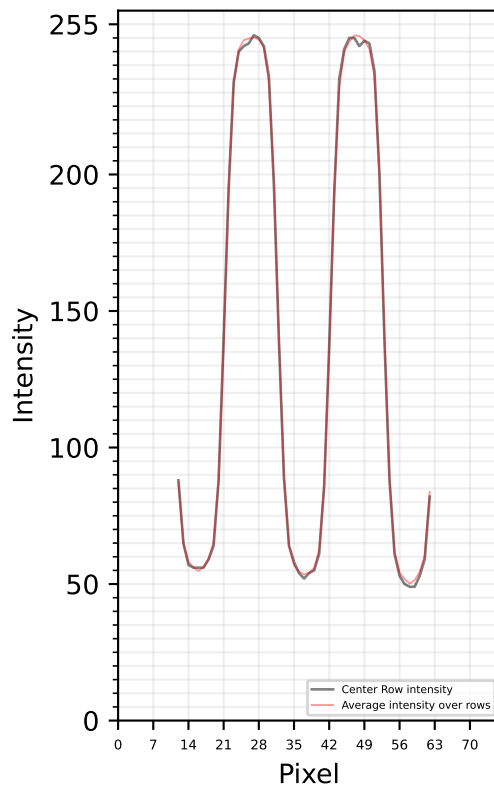
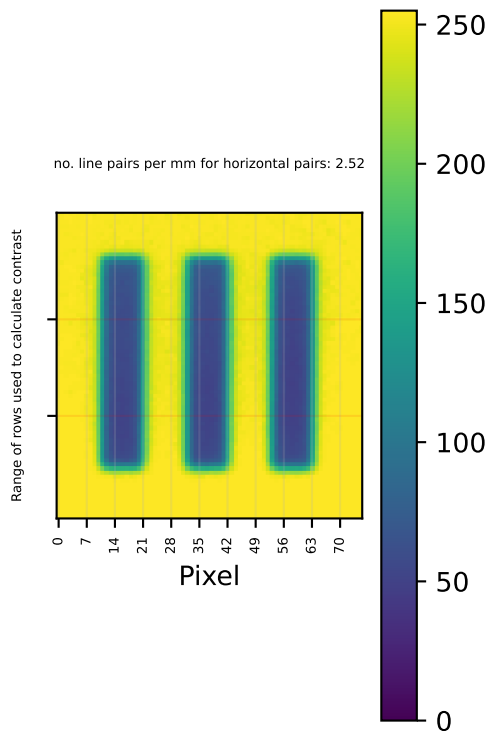


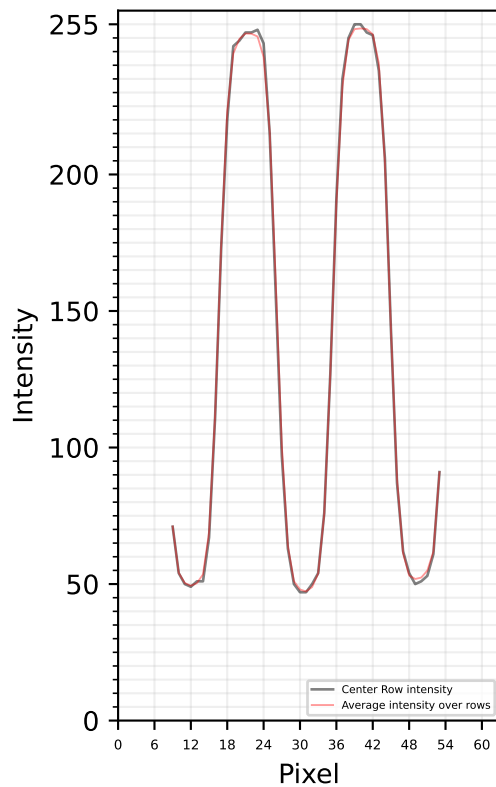
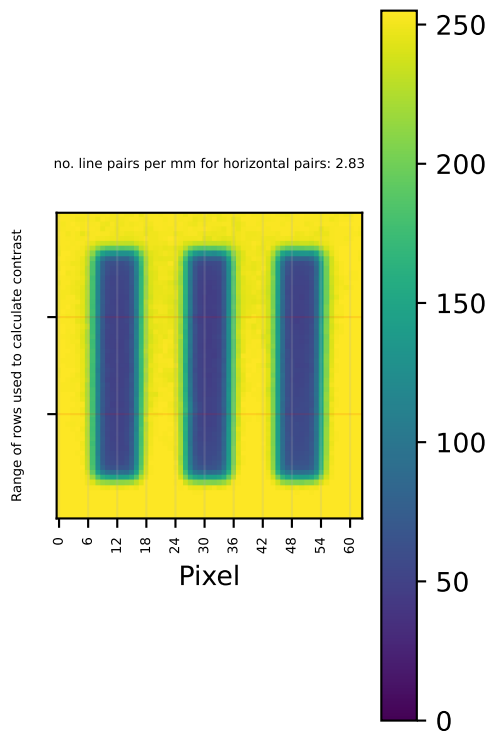


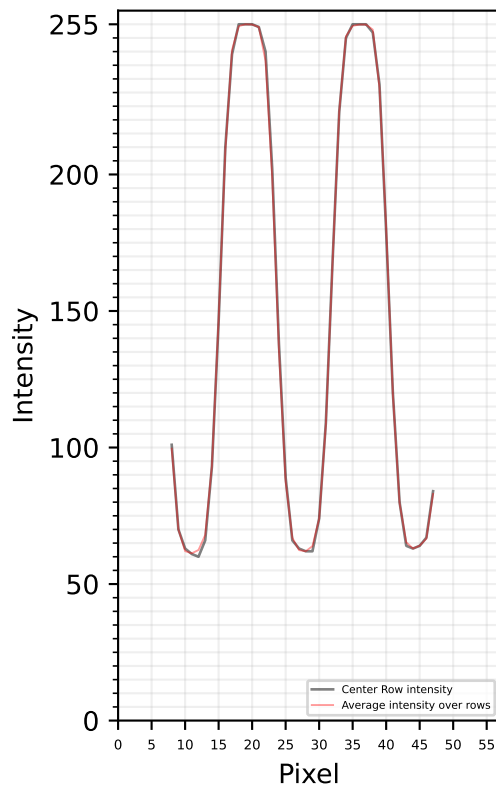
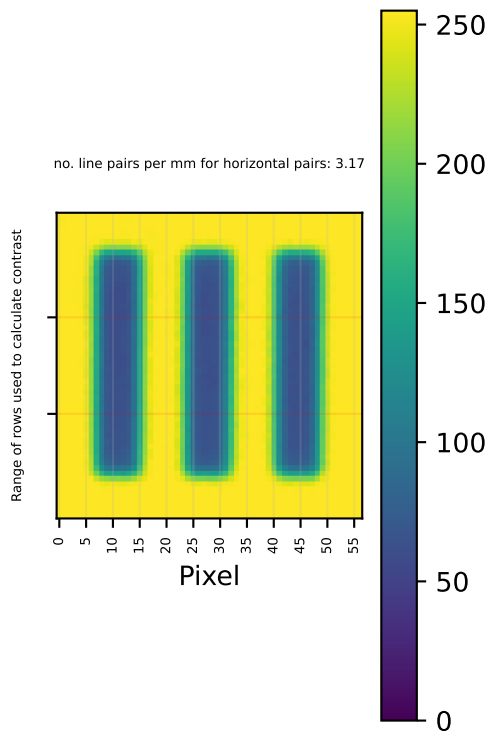


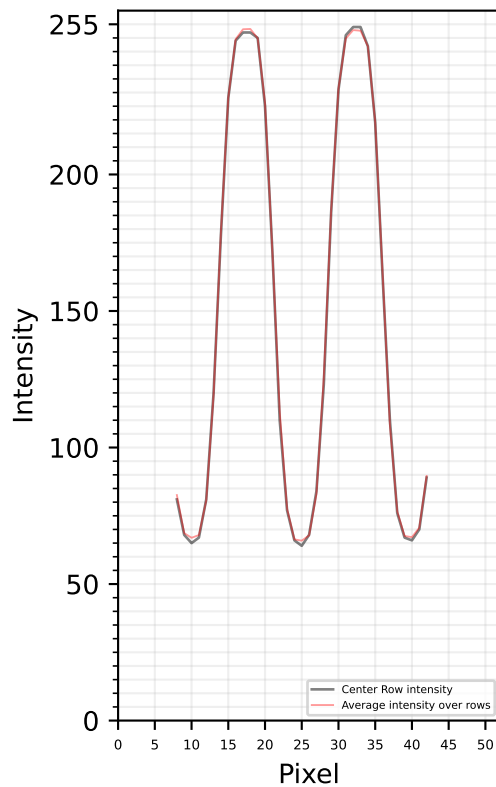
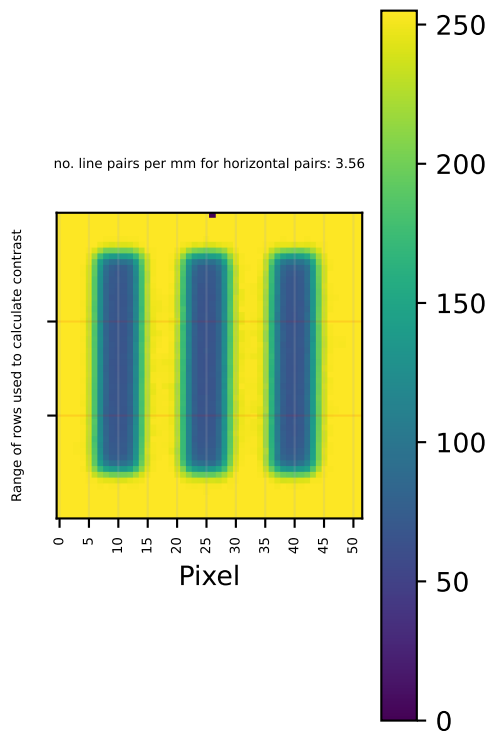


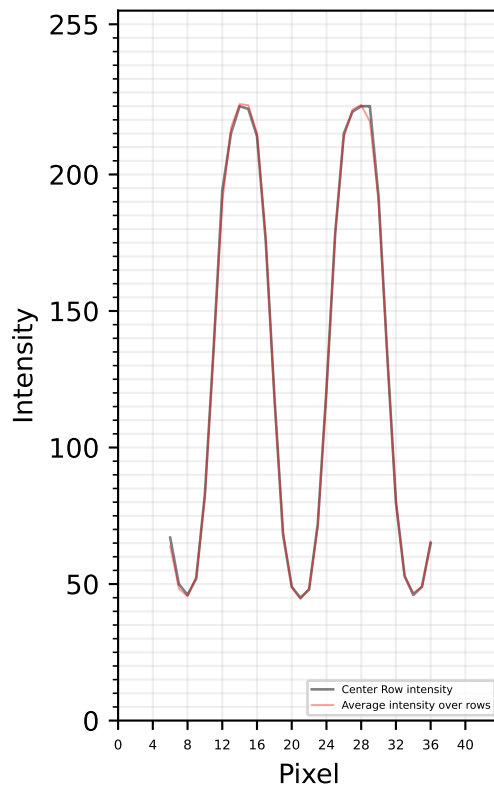
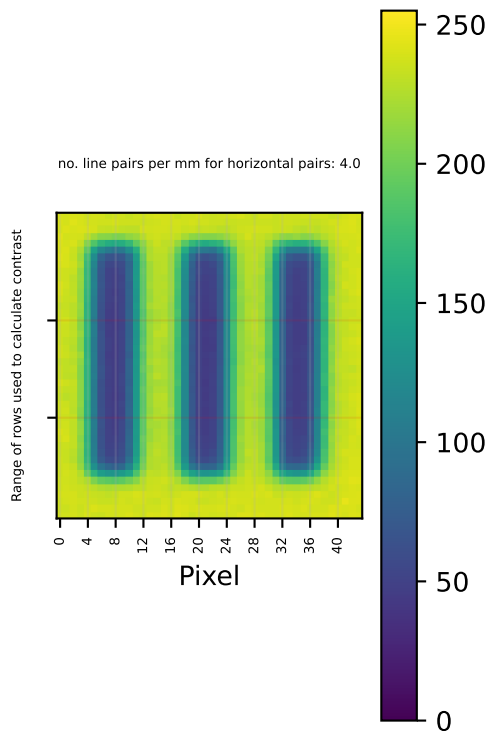


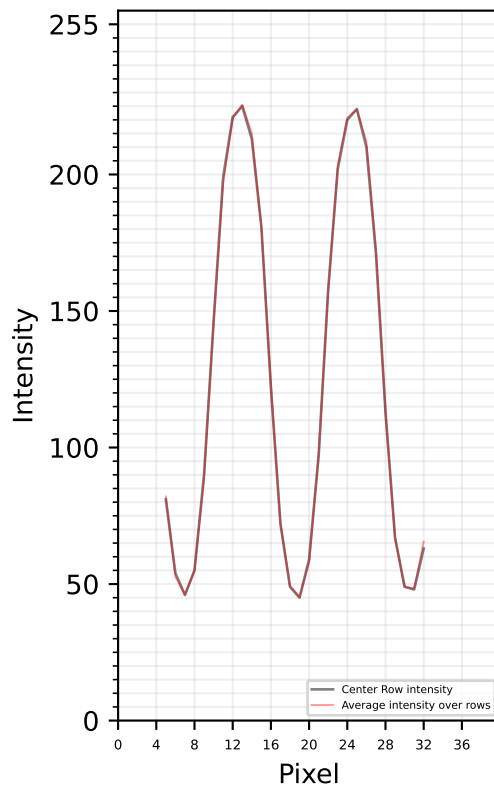
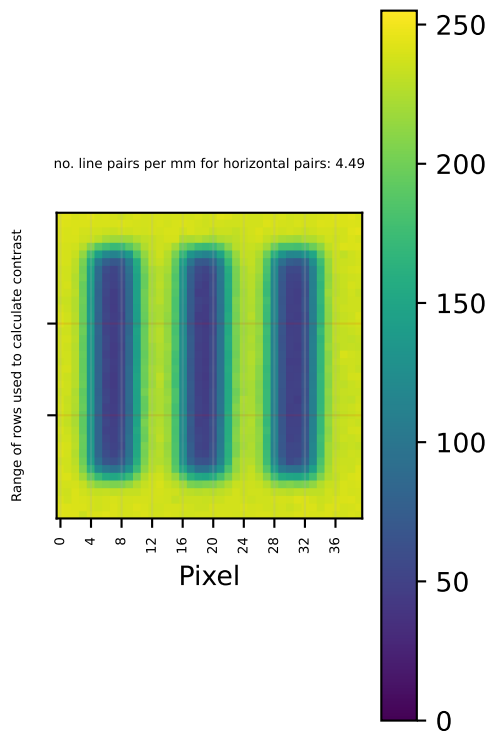


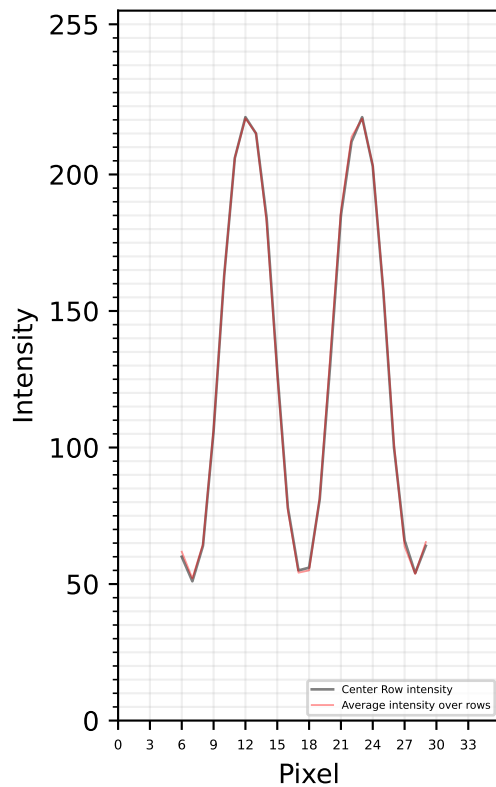
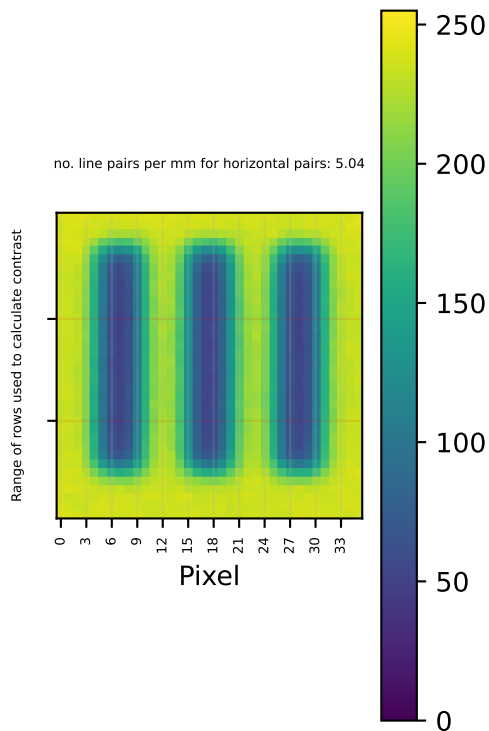


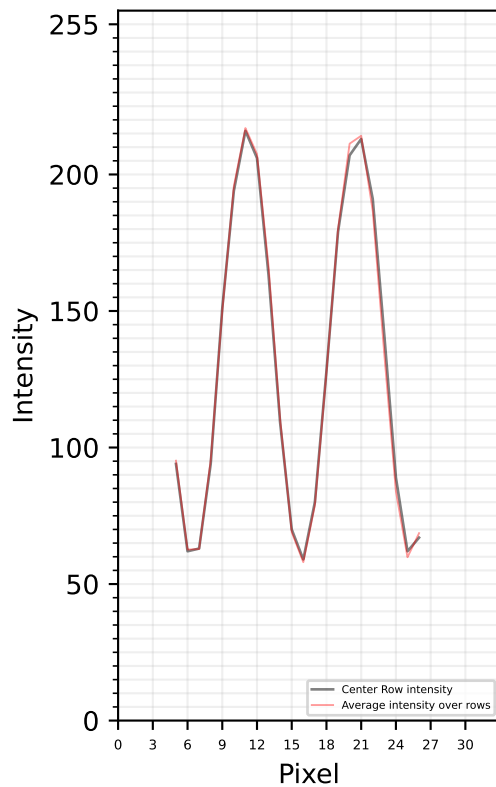
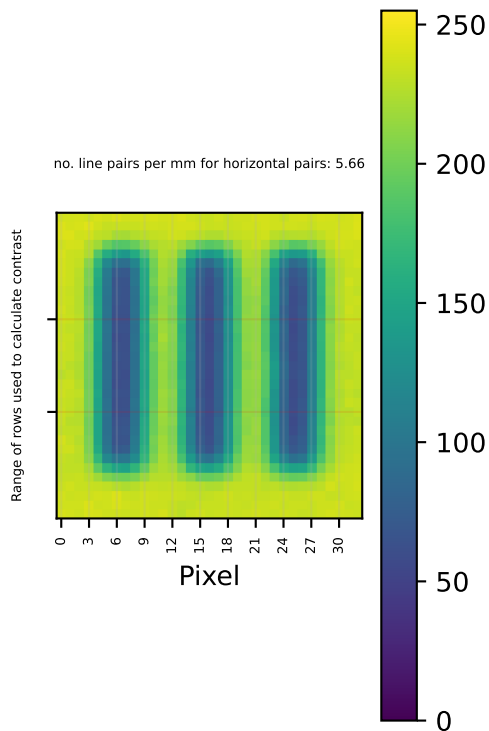


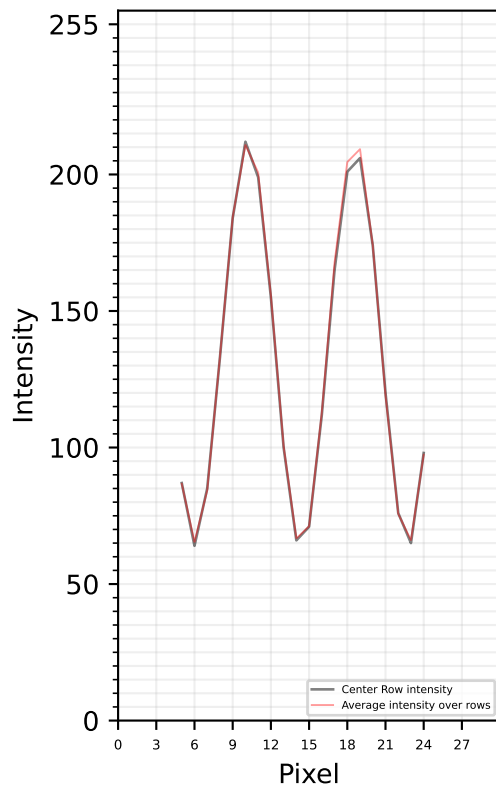
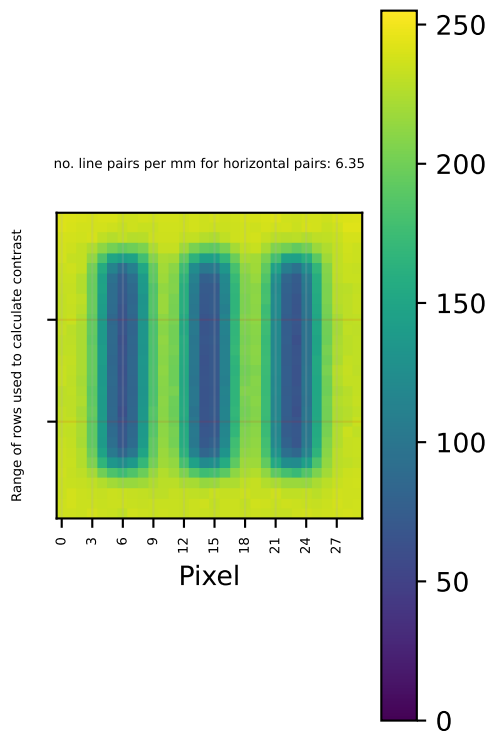












MTF curve for horizontal pairs

