Pandora Data Processing Center NIRDA PSF Requirements Test Report

Package Versions:

- pandora requirements: 0.1.1

- pandorapsf: 0.5.0

pandorasat: 0.8.3astropy: 5.3.4

Detector Characteristics:

zodiacal_background_rate: 4.0 electron / (pix s)

stray_light_rate: 2.0 electron / (pix s)

thermal background rate: 10.0 electron / (pix s)

dark rate: 1.0 electron / (pix s)

read noise: 12.727922061357855 electron / pix

Test Requriements:

- Target Test | band Magnitude: 9.0

- Target Test T_{eff}: 3500.0 K

- Required Number of Integrations: 900

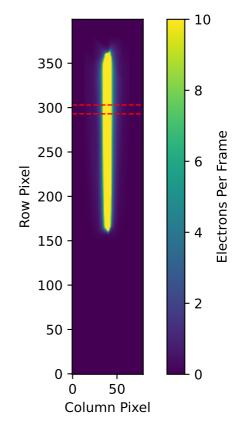
- Required SNR: 6000.0

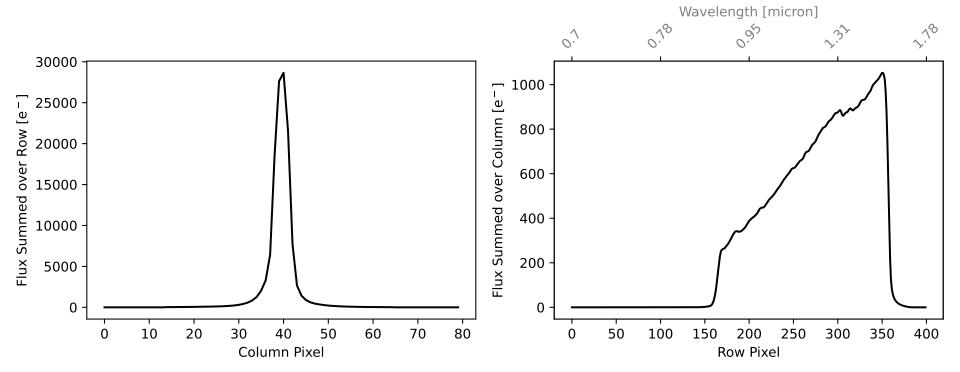
- Required Wavelength: 1.3 micron micron

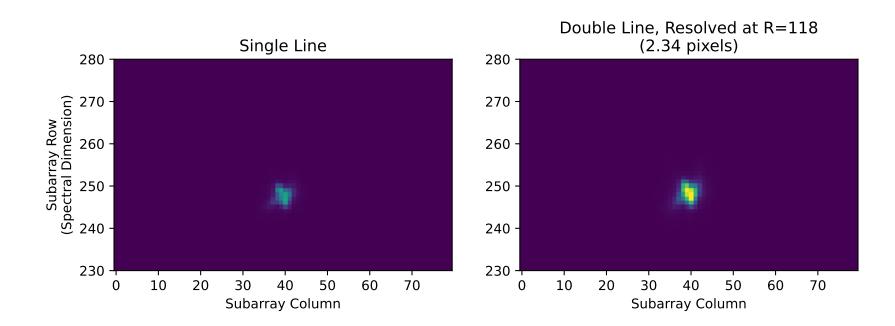
- Required R: 30.0

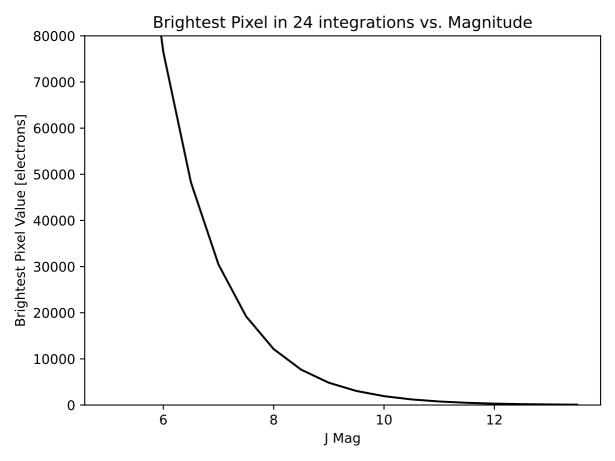
Additional Information:

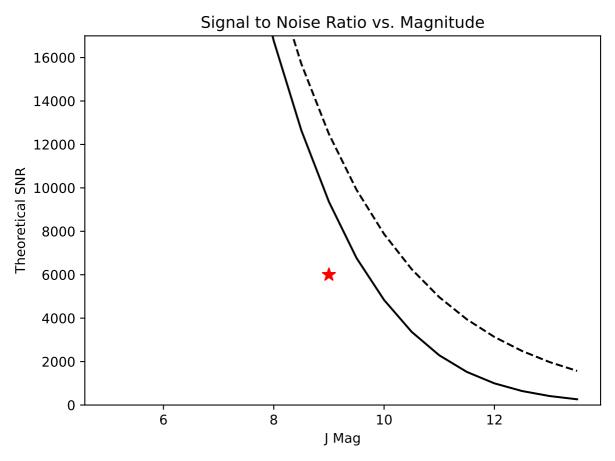
- This document contains test results for a target star on the NIRDA.
 - Generated using automated tests and visualizations.
 - This test uses CBE for all Pandora parameters
 - This test assumes no jitter motion between frames.

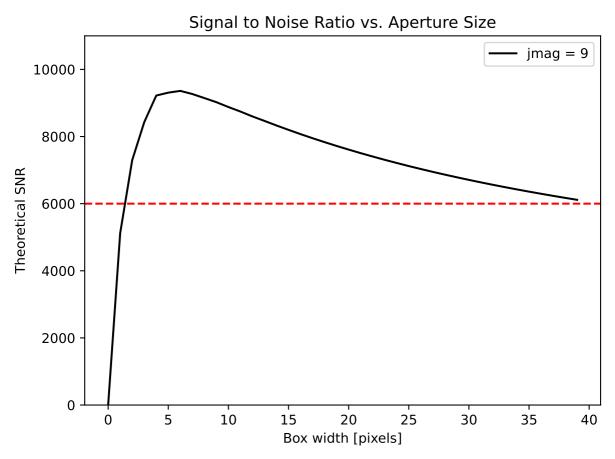












NIRDA Spectral Resolution Modeled resolution 140 Smoothed 130 120 Spectral resolution 110 100 90 80 70 0.9 1.0 1.1 1.4 1.5 1.6 1.2 1.3 Wavelength(micron)