

TIC 59388389

Eclipsing binary candidate dossier - Star Vetter

CLEAN

BLS EPHEMERIS

Period 1.185625 d
Epoch (t0) 2420.8974 BTJD
Duration 0.2440 d
Depth 0.528 % (5,285 ppm)
SNR 65.7

CATALOG CROSS-MATCH (novelty)

VSX	no match
ASAS-SN	no match
Gaia eclipsing-binary table	no match
Gaia variable classification	no match
TESS EB catalog (Prsa+2022)	no match
ExoFOP TOI list	no match

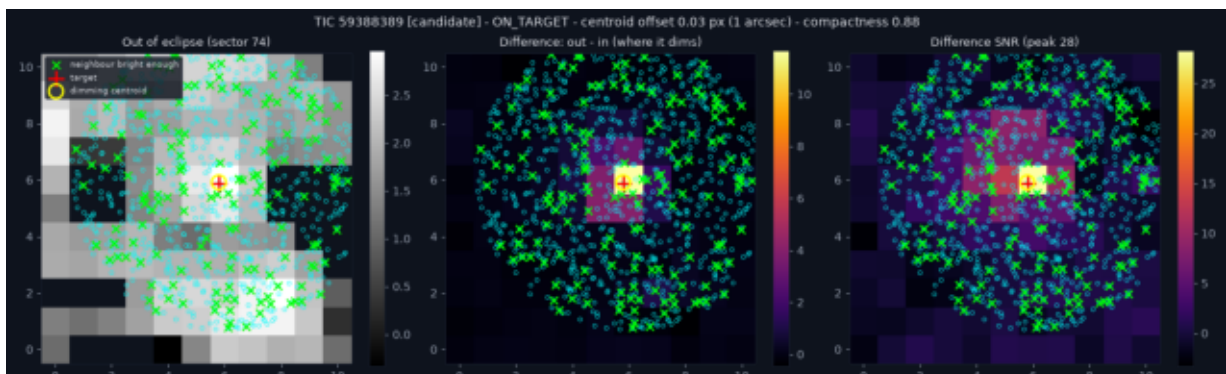
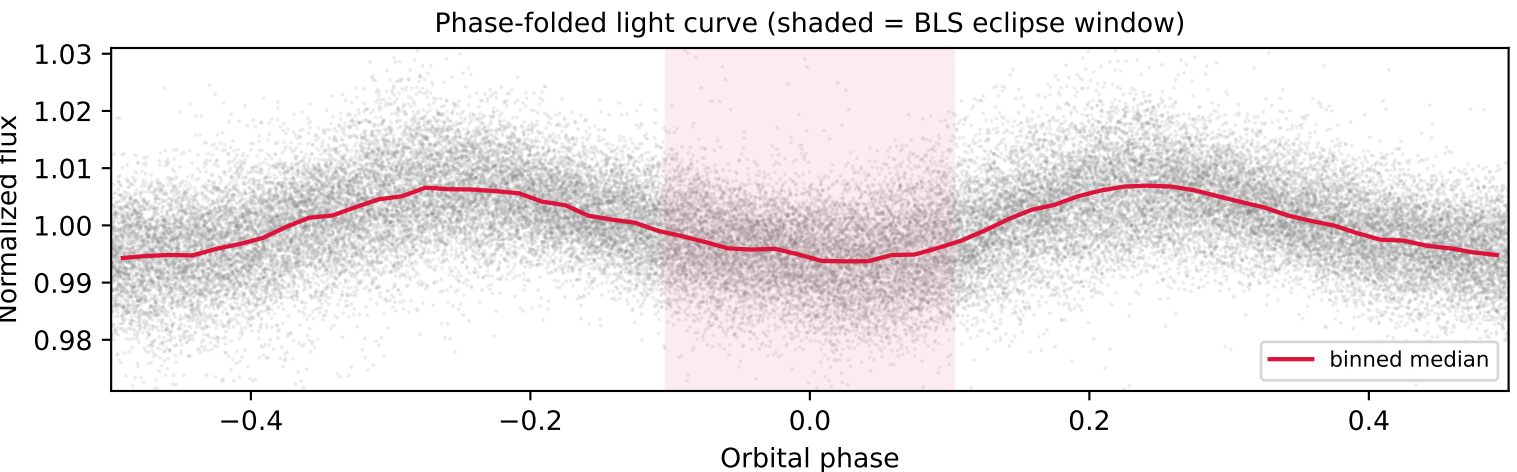
INDEPENDENT CHECKS (f3i gates)

Eclipses observed 134 (gate ≥ 3)
Robust depth ratio 1.09 (gate ≥ 0.50)
Robust depth sigma 57.2 (gate ≥ 7.0)
Odd/even z-score 1.52 (consistent)
Secondary eclipse not detected

Verdict: NOVEL

PIXEL-LEVEL SOURCE CHECK (TESScut difference imaging)

Sector 74 light-curve dip in this sector: 41.9 sigma t0 refined by 0.0325 phase
Difference-image peak SNR 28.32 (gate ≥ 5.0) Compactness 0.88 (gate ≥ 0.50)
Dimming centroid offset 0.03 px (1 arcsec) (gate ≤ 1.0 px, i.e. on the target)
Nearest bright-enough neighbour in cutout: TIC 59388372
0.43 px away, dTmag +4.20 - farther from the dimming than the target



No caveats - clean detection on every check.