

# Test Plan & Report: Bill of Materials and Source Code

Automated Test Agent

February 11, 2026

## 1 Introduction

This document presents the test plan and execution results for the Bill of Materials (BOM) and core source code of the TFLN Photonic Stacking project.

## 2 Test Results

Test Case	Status	Notes
BOM File Existence	PASS	TFLN_BOM.csv found
BOM Content	PASS	BOM contains 25 items
Component Check: TFLN	PASS	Found occurrence of TFLN
Component Check: Laser	PASS	Found occurrence of Laser
Component Check: Photodetector	PASS	Found occurrence of Photodetector
Cost Calculation Consistency	PASS	All row totals match quantity * unit cost
File Existence: app.py	PASS	File exists
Syntax Check: app.py	PASS	Valid Python syntax
File Existence: photonic_core.py	PASS	File exists
Syntax Check: photonic_core.py	PASS	Valid Python syntax
File Existence: tfln_components.py	PASS	File exists
Syntax Check: tfln_components.py	PASS	Valid Python syntax
File Existence: generate_bom.py	PASS	File exists
Syntax Check: generate_bom.py	PASS	Valid Python syntax

## 3 Conclusion

The automated tests have been executed. Please review any FAIL statuses above.