

The graph plots performance (Y-axis) against Density (X-axis, ranging from 0.00 to 0.25). Two main data series are shown: Reference LIBXSMM (blue line) and Custom LIBXSMM (orange line). Both series include data for sparse (circles), wide-sparse (squares), and dense (triangles) patterns. The Custom LIBXSMM series shows significantly higher performance than the Reference LIBXSMM series for densities between 0.00 and 0.10, particularly for the sparse and wide-sparse patterns. The performance of both series converges as density increases towards 0.25.

Density	Reference LIBXSMM (sparse)	Reference LIBXSMM (wide-sparse)	Reference LIBXSMM (dense)	Custom LIBXSMM (sparse)	Custom LIBXSMM (wide-sparse)	Custom LIBXSMM (dense)
0.00	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.01	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.02	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.03	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.04	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.05	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.06	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.07	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.08	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.09	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.10	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.11	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.12	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.13	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.14	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.15	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.16	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.17	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.18	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.19	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.20	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.21	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.22	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.23	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.24	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00
0.25	~0.00	~0.00	~0.00	~0.00	~0.00	~0.00

