In this paper, we explore two variants of Dushnik-Miller dimension on posets, namely boolean dimension and local dimension. In our main result, we prove that the local dimension of a poset is not bounded in terms of the tree-width of its cover graph. The proof requires the development of some ramsey-theoretic tools for a class of posets called binary trees, which may prove to be of independent interest. In addition, we prove that the local dimension of a poset is not bounded in terms of its boolean dimension. (Received January 16, 2017)