It is shown that if a matrix  $\ell\ell$ -algebra  $\mathsf{Mn}(\mathsf{K})Mn(K)$  over certain  $\ell\ell$ -fields  $\mathsf{K}K$  contains a positive  $\mathsf{n}n$ -cycle ee such that  $\mathsf{I}+e+\dots+e_{\mathsf{n}-1}I+e+\dots+e_{\mathsf{n}-1}I$  is a  $\mathsf{d}d$ -element on  $\mathsf{K}K$  then it is isomorphic to the  $\ell\ell$ -algebra  $\mathsf{Mn}(\mathsf{K})Mn(K)$  over  $\mathsf{K}K$  with the entrywise lattice order.