**Sup. 1 Evolution of the light intensity delivered by the artificial light inside the cave and the light available for the biofilms.**



**Sup. 2 Quantum yield measurements of the sampled biofilms outside, at the entrance and inside the Azé cave. The average values of the three area were not statistically significant.**

**Sup. 3 The biofilm colorimetric parameters were measured with a spectrophotometer. Color measurements were analyzed according to the CIELAB color system. The a\* scale is associated with changes in redness-greenness (positive a\* is red and negative a\* is green).**

