

## ***Interactive comment on “The new sun-sky-lunar Cimel CE318-T multiband photometer – a comprehensive performance evaluation” by A. Barreto et al.***

**Anonymous Referee #1**

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Concerning the submitted paper; my initial comments have been taken into account by the authors. This is a very interesting work with detailed analysis on the technical aspects involved in the measurements and AOD retrieval.

Concerning the comments on the sun calibration transfer by Dr Toledano and Dr. Berkoff: As mentioned by the authors, they are willing to revise the article including the results presented by Dr. Toledano. In that case i would more than agree that the systematic differences in AOD derived by this new (Toledano) approach and the lunar langley calibration using the same set of measurements have to be presented.

In that case the new revised paper includes information that have to be revised again.

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Main issue from my point of view is to present clearly the different calibration methods and to discuss on the possibility of future users of Cimel instruments that would like to measure night time AOD, the best calibration approaches that they have to use, accompanied by their uncertainty.

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 11077, 2015.