

REVIEWS ON THE MANUSCRIPT [10]

Reviewer 1:

Page 2, calculation of Luminous Efficiency : using Planck's Law to calculate the emission of a gray body emission looks questionable as the spectral emissivity coefficient for tungsten is strongly dependent on temperature and wavelength. (Cf. an appropriate reference book).

In my opinion, introducing the Luminosity Function incurs too many complications. You might have considered that only a certain interval of wavelengths constitutes luminous energy; both the calculations and the experimental proof would be simpler.

Page 3, calculation of tungsten filament resistance : the equation with dimensional variable T in a fractional power looks quite bad. I have already seen similar equations in such a form, but would suggest to briefly clarify this issue in the text.

The experiment with heat measurement : more information is needed on the error of the measurements. Water absorbs not all heat energy, while an amount of luminous energy is also absorbed. At the same time, the heat from the box is lost into the environment. The heat losses through the wires are never considered.

The manuscript is recommended for publication if the suggested details are clarified.

Reviewer 2:

This paper is well written and has a good structure. I recommend it for publication without any change.