

**Matlab code, figure and data files for Solar Energy paper:**  
***“Design and commissioning of a virtual image solar simulator  
for testing thermal collectors”.***

This code runs in Matlab r2017a. Typically a script file will either produce a single figure or is designed to be run in sections, producing one graph after another. The function files are almost always called by script files.

**Figure 1.**

- Drawn in Microsoft Office.

**Figure 2.**

- Drawn in Microsoft Office.

**Figure 3 (a&b)**

- fig\_3a.fig
- fig\_3b.fig
- pyranometer2.m

**Figure 4**

- fig\_4.fig
- plot\_illumination3d\_v3.m

**Figure 5.**

- Photographs

**Figure 6 (a&b)**

- fig\_6a.fig
- fig\_6b.fig
- lamp\_patterns\_paper.m

**Figure 7.**

- fig\_7.fig
- plot\_illumination3d\_v3.m

**Figure 8.**

- fig\_8.m
- lamp\_patterns\_paper.m ("Figure 8" section)

**Figure 9.**

- photo

**Figure 10.**

- fig\_10.fig
- test170202a.m (section "plot figure 10 for paper")

**Figure 11.**

- IMG\_83591.JPG, IMG\_83593.JPG

**Figure 12.**

- IMG\_83599.JPG

**Figure 13(a)**

- fig\_13a.fig
- floodlight\_spectra3.m

**Figure 13(b)**

- fig\_13b.fig
- am1p5.m

**Figure 14.**

- fig\_14.fig
- cum\_bbspectrum2.m to line 65

**Figure 15.**

- fig\_16.fig
- floodlight\_ir.m

**Table 1.**

- cum\_bbspectrum4.m (to line 62)
- cum\_bbspectrum2.m

**Table 2.**

- cum\_bbspectrum4.m (line 66 onwards)

All other files are functions called by the above.

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