Towards a Comprehensive City Emission Function (CCEF)

Miroslav KOCIFAJ

PII: S0022-4073(17)30477-6
DOI: 10.1016/j.jqsrt.2017.10.006
Reference: JQSRT 5866

To appear in: *Journal of Quantitative Spectroscopy & Radiative Transfer*

Received date: 12 June 2017
Revised date: 5 October 2017
Accepted date: 5 October 2017

Please cite this article as: Miroslav KOCIFAJ , Towards a Comprehensive City Emission Function (CCEF), *Journal of Quantitative Spectroscopy & Radiative Transfer* (2017), doi: 10.1016/j.jqsrt.2017.10.006

Highlights

- Analytical function for the light intensity emitted upwards from cities is developed
- The function is to model heterogeneous light-emitting or blocking urban environment
- The model depends on properties of light-emitting elements (buildings, luminaires)
- It is also validated for sensitivity and specificity pertinent to input parameters
- The method is fast and can be easily included in larger numerical models