Accepted Manuscript

On lamps, walls, and eyes: the spectral radiance field and the evaluation of light pollution indoors

Salvador Bará, Jaume Escofet

PII: \$0022-4073(17)30562-9 DOI: 10.1016/j.jgsrt.2017.09.022

Reference: JQSRT 5850

To appear in: Journal of Quantitative Spectroscopy & Radiative Transfer

Received date: 13 July 2017

Revised date: 11 September 2017 Accepted date: 18 September 2017



This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Highlights

- Human photoreceptoral inputs depend on the spectral radiance field
- The radiance field indoors is modulated by the spectral wall reflectances
- Effective filter functions are instrumental to quantify this effect
- Simple analytical models may be used to describe the walls modulating role
- Tayloring the wall reflectances allows to control the subject's light exposure

Download English Version:

https://daneshyari.com/en/article/7846412

Download Persian Version:

https://daneshyari.com/article/7846412

<u>Daneshyari.com</u>