

spectral photon radiance, $L_{p\lambda}$

The photon radiance, L_p , at wavelength per unit wavelength interval. The SI unit is $\text{s}^{-1} \text{m}^{-3} \text{sr}^{-1}$, but a commonly used unit is $\text{s}^{-1} \text{m}^{-2} \text{sr}^{-1} \text{nm}^{-1}$. Alternatively, the term can be used with the amount of photons (mol or its equivalent einstein) the SI unit then being $\text{mol s}^{-1} \text{m}^{-3} \text{sr}^{-1}$ and the common unit $\text{mol s}^{-1} \text{m}^{-2} \text{sr}^{-1} \text{nm}^{-1}$.

Source:

PAC, 1996, 68, 2223 (*Glossary of terms used in photochemistry (IUPAC Recommendations 1996)*) on page 2276