doi:10.1351/goldbook.S05821

spectral photon flux (photon irradiance), $E_{p\lambda}$

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

Source:
PAC, 1996, *68*, 2223 *(Glossary of terms used in photochemistry (IUPAC Recommendations 1996))* on page 2275

