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radiant exposure, H

Radiant energy, Q, incident from all upward directions on an small sphere divided by the cross-sectional area of that sphere. SI unit is J m^{-2}.

Notes:

1. Equivalent definition: Irradiance, E integrated over the time of irradiation.
2. Mathematical definition: $H = dQ / dS = \int_t E dt$ If Q is constant over the area, $H = Q / S$. If E is constant over the time interval, $H = E\,t$.
3. This term refers to a beam not scattered or reflected by the target or its surroundings. For a beam incident from all directions fluence (H_o, F_o) is an equivalent term.

Source:

PAC, 2007, *79*, 293 *(Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006))* on page 409

