

Wavebands of the solar spectrum

Adapted from: Iqbal, M. 1983. An introduction to solar radiation, and other sources.

Color	Wavelength (nm)	Irradiance (W m ⁻²)	Percentage of the solar constant (1367 Wm ⁻²)
Ultraviolet UV-C (< 280 nm; germicidal or far) UV-B (280 - 320 nm; sun burning or middle) UV-A (320 - 400 nm; sun tanning or near)	< 400	109.81	8.03
Visible	400-700 (390-770)	634.40	46.41
Violet I	400(390)-455	108.85	7.96
Blue I	455-492	73.63	5.39
Green I	492-577	160.00	11.70
Yellow I	577-597	35.97	2.63
Orange I	597-622	43.14	3.16
Red I	622-770	212.82	15.57
Infrared	> 700 (> 770)	634.40	46.40

Total spectrum	< 300	16.40*	1.20
	300-2400	1298.65*	95.00
	> 2400	49.21*	3.60
		*approximate	