

### *Standard photometric systems*

#### *Standard U, B, V, R, I and long wavelength systems*

Filter band	$\lambda_0^{(a)}$ (μm)	$\Delta\lambda_0$ (FWHM) (μm)	Absolute spectral irradiance for mag = 0.0	
			$f_\lambda(0)$ (erg cm <sup>-2</sup> s <sup>-1</sup> Å <sup>-1</sup> )	$f_v(0)$ (W m <sup>-2</sup> Hz <sup>-1</sup> )
U	0.365	0.068	$4.27 \times 10^{-9}$	$1.90 \times 10^{-23}$
B	0.44	0.098	$6.61 \times 10^{-9}$	$4.27(4.64)^{(b)} \times 10^{-23}$
V	0.55	0.089	$3.64 \times 10^{-9}$	$3.67 \times 10^{-23}$
R	0.70	0.22	$1.74 \times 10^{-9}$	$2.84 \times 10^{-23}$
I	0.90	0.24	$8.32 \times 10^{-10}$	$2.25 \times 10^{-23}$
J	1.25	0.3	$3.18 \times 10^{-10}$	$1.65 \times 10^{-23}$
H	1.65	0.4	$1.18 \times 10^{-10}$	$1.07 \times 10^{-23}$
K	2.2	0.6	$4.17 \times 10^{-11}$	$6.73 \times 10^{-24}$
L	3.6	1.2	$6.23 \times 10^{-12}$	$2.69 \times 10^{-24}$
M	4.8	0.8	$2.07 \times 10^{-12}$	$1.58 \times 10^{-24}$
N	10.2		$1.23 \times 10^{-13}$	$4.26 \times 10^{-25}$

<sup>(a)</sup>  $\lambda_0 = \int \lambda S(\lambda) d\lambda / \int S(\lambda) d\lambda$ , where  $S(\lambda)$  is the photometer response function.

<sup>(b)</sup> From S. Kleinmann.

*U, B, R, I, N* values from Allen, C. W., *Astrophysical Quantities*. The Athlone Press (1973). *V, J, H, K, L, M* values from Wamsteker, W., *Astron. Astrophys.*, **97**, 329 (1981).