

Common CIE Illuminants Used In Spectrophotometry and Colorimetry

CIE Illuminant	Color Temperature (Degrees Kelvin)	CRI (Color Rendering Index)	Common lamps in this group
A	2856	92<	Incandescent lamps of about 75 to 100 watts (at normal voltages)
C	6250	92<	This is a theoretical illuminant. Not commonly found in lighting systems. D65 or D50 have become preferred.
D50 (D5000)	5000K	95<	Daylight source at 5000K. Achieved in various ways using conventional lamps.
D65 (D6500)	6500K	95<	Daylight source at 6500K. Achieved in various ways using conventional lamps.
D75	7500K	95<	Daylight source at 7500K. Achieved in various ways using conventional lamps.
F1	6430	76	Various commercially available daylight lamps
F2	4230	64	Cool White Fluorescent
F3	3450	57	White
F4	2940	51	Warm White
F5	6350	72	Better "daylight" lamps Not sufficient for critical color matching
F6	4150	59	"Lite" White
F7	6500	90	D65 Daylight
F8	5000	95	Various high end daylight fluorescent lamps
F9	4150	90	Cool White Deluxe
F10	5000	81	Phillips TL85; Sylvania Ultralume 50
F11	4000	83	Phillips TL84, SP41 or Sylvania Ultralume 40
F12	3000	83	Phillips TL83; Ultralume 30