

# LS-110 Luminance Meters

## PRODUCT SPECS:

What are the specs for the product?

<b>Model</b>	Luminance Meter LS-100	Luminance Meter LS-110
<b>Type</b>	SLR spot luminance meter for measuring light-source and surface brightness	
<b>Acceptance angle</b>	1°	1/3°
<b>Optical system</b>	85mm f/2.8 lens; SLR viewing system; flare factor less than 1.5%	
<b>Angle of view</b>	9°	
<b>Focusing distance</b>	1014mm (40 in.) to infinity	
<b>Minimum measuring area</b>	Φ14.4mm	Φ4.8mm
<b>Receptor</b>	Silicon photocell	
<b>Relative Spectral Response*</b>	Within 8% (f1率) of the CIE spectral luminous efficiency V (λ)	
<b>Response time</b>	FAST: Sampling time: 0.1s, time to display: 0.8 to 1.0s; SLOW: Sampling time: 0.4s, time to display: 1.4 to 1.6s	
<b>Luminance units</b>	cd/m <sup>2</sup> or fL (switchable)	
<b>Measuring range</b>	FAST: 0.001 to 299,900cd/m <sup>2</sup> (0.001 to 87,530fL)  SLOW: 0.001 to 49,990cd/m <sup>2</sup> (0.001 to 14,590fL)	FAST: 0.01 to 999,900cd/m <sup>2</sup> (0.01 to 291,800fL)  SLOW: 0.01 to 499,900cd/m <sup>2</sup> (0.01 to 145,900fL)
<b>Accuracy</b>	0.001 to 0.999cd/m <sup>2</sup> (or fL): ±2% ±2 digits of displayed value  1.000cd/m <sup>2</sup> (or fL) or greater: ±2% ±1 digit of displayed value	0.01 to 9.99cd/m <sup>2</sup> (or fL): ±2% ±2 digits of displayed value  10.00cd/m <sup>2</sup> (or fL) or greater: ±2% ±1 digit of displayed value

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	(Illuminant A measured at ambient temperature of 20 to 30°C/68 to 86°F)	
<b>Repeatability</b>	0.001 to 0.999cd/m <sup>2</sup> (or fL): ±0.2% ±2 digits of displayed value	0.01 to 9.99cd/m <sup>2</sup> (or fL): ±0.2% ±2 digits of displayed value
	1.000cd/m <sup>2</sup> (or fL) or greater: ±0.2% ±1 digit of displayed value	10.00cd/m <sup>2</sup> (or fL) or greater: ±0.2% ±1 digit of displayed value
	(Measurement subject: Illuminant A)	
<b>Temperature/humidity drift</b>	Within ±3% ±1 digit (of value displayed at 20°C/68°F) within operating temperature /humidity range	
<b>Calibration mode</b>	Minolta standard/user-selected standard (switchable)	
<b>Color correction factor</b>	Set by numerical input; range: 0.001 to 9.999	
<b>Reference luminance</b>	1; set by measurement or numerical input	
<b>Measurement modes</b>	Luminance; luminance ratio; peak luminance or luminance ratio	
<b>Display</b>	External: 4-digit LCD with additional indications	
	Viewfinder: 4-digit LCD with LED backlight	
<b>Data communication</b>	RS-232C; baud rate: 4800bps	
<b>External control</b>	Measurement process can be started by external device connected to data output terminal	
<b>Power source</b>	One 9V battery	
<b>Power consumption</b>	While measuring button is pressed and viewfinder display is lit: 16mA average	
	While power is on and viewfinder display is not lit: 6mA average	
<b>Operating temperature/humidity range</b>	0 to 40°C, relative humidity 85% or less (at 35°C) with no condensation	
<b>Storage temperature /humidity range</b>	-20 to 55°C, relative humidity 85% or less (at 35°C) with no condensation	
<b>Dimensions</b>	79×208×150mm (3-1/8×8-3/16×5-7/8 in.)	
<b>Weight</b>	850g (30 oz.) without battery	
<b>Standard accessories</b>	Lens cap; Eyepiece cap; ND eyepiece filter; 9V battery; Case	
Specifications are subject to change without notice.		

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*	Equivalent to 2% specified for T-1 series. 8% CIE(f1'),new JIS(1993) 2% old JIS	
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