

NEW LR-127 LED ANALYZER NEW

The new, patented (patent no. 7,022,969) LR-127 LED Analyzer is a unique tool for making luminous intensity (in candelas) measurements of discrete LED's for compliance to CIE 127 Condition A (2°) and Condition B (6.5°). It can be ordered with three of our world class instruments the PR-650, PR-705 / 715 and the PR-880.



LR-127

All other commercially available devices designed for CIE 127 compliance testing require that the LED be tested twice, in two different setups, to perform a complete test. Typically, this means utilizing two tubes of different lengths. Since the optical path of most discrete LED's is rarely in alignment with the packaging, even small changes in the relationship between the measuring and emittance paths between tests can result in inaccurate and or non-repeatable results. By simply repositioning a slide from "A" to "B" (or vice versa) the LR-127 is set to test to the required measuring geometry.

Like all optical accessories for Photo Research instruments, the LR-127 is supplied with a NIST traceable calibration from the factory and certified for accuracy for six months. There is never a need to calibrate the accessory every time it is used with the instrument.

During operation, the LED is inserted into a special holder that insures that it is securely mounted. Two holders are supplied and accept either T-1 (3mm) or T-1.75 (5 mm) packages. Contact us for special sizes.



Accepts T1 (3 mm) or T1.75 (5 mm) packages.



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Specifications Subject to Change Without Notice

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Sensitivity Table

The following table lists minimum sensitivities for the LR-127 by instrument and LED peak wavelength. All values are typical. Actual sensitivities may vary.

		Measuring Aperture							Milli candela s 1
LED WL	CIE 127 Condition	3°	2°	1°	1/2°	1/4°	1/8°		
PR-880 ²	470	A	0.14	.0315	1.2	4.8	20	80	
		B	0.014	0.0315	0.12	0.48	2	8	
	525	A	0.14	0.315	1.2	4.8	20	80	
		B	0.014	0.0315	0.12	0.48	2	8	
	594	A	0.14	.0315	1.2	4.8	20	80	
		B	0.014	0.0315	0.12	0.48	2	8	
638	A	0.1	0.225	0.9	3.6	14	60		
	B	0.01	0.0225	0.09	0.36	1.4	6		
PR-705 ³	470	A	NA	NR	8	30	120	500	
		B	NA	NR	0.8	3	12	50	
	525	A	NA	NR	8	30	120	500	
		B	NA	NR	0.8	3	12	50	
	594	A	NA	NR	8	30	120	500	
		B	NA	NR	0.8	3	12	50	
638	A	NA	NR	5	20	80	300		
	B	NA	NR	0.5	2	8	30		
PR-650 ⁴	470	A	NA	NA	40	10	NA	NA	
		B	NA	NA	4	1	NA	NA	
	525	A	NA	NA	40	10	NA	NA	
		B	NA	NA	4	1	NA	NA	
	594	A	NA	NA	50	12.5	NA	NA	
		B	NA	NA	5	1.25	NA	NA	
638	A	NA	NA	60	15	NA	NA		
	B	NA	NA	6	1.5	NA	NA		

Notes:

1. Minimum luminous intensity for 100:1 signal to noise. All values are typical. Actual sensitivities may vary.
2. The PR-880 can measure 100 million times the minimum value. However, thermal considerations limit the maximum input to about 1 watt.
3. The PR-705 can measure 60 thousand times the minimum value. Power is limited to 1 watt.
4. The PR-650 can measure five thousand times the minimum value. Power should be limited to 1 watt. For the 5 nm BW option, multiply above values by 2.00.

NA = Not Applicable. NR = not recommended due to system bandwidth.