

doric
















LED Spectra

Application Note

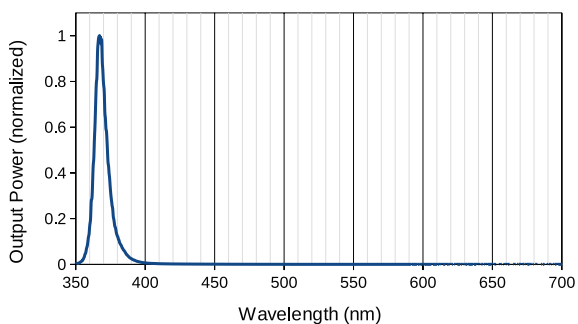
Version 1.1.0

LED Light Source Intensity

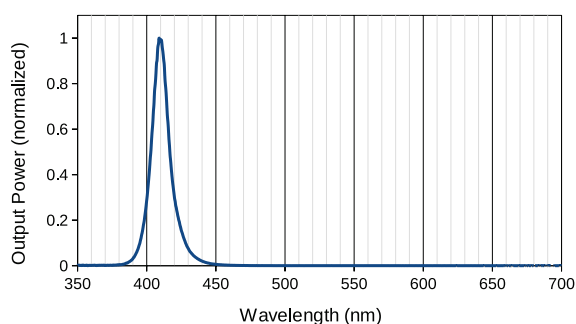
Table 1.1: Typical Connectorized LED Output Power vs Optical Fiber Core Diameter

	LED			TYPICAL OUTPUT POWER at max current		
	Central Wavelength (nm)	Bandwidth FWHM (nm)	Maximum Current (mA)	Core 200 μm 0.53 NA	Core 400 μm 0.53 NA	Core 960 μm 0.63 NA
	365	~12	500	4.0	12	75
	385	~12	500	6.0	23	100
	405	~15	500	5.0	20	90
	420	~15	500	5.5	23	100
	450	~25	1000	8.0	23	100
	465	~25	1000	8.5	30	140
	505	~30	1000	3.0	16	70
	515	~40	1000	3.0	9.5	40
	560	~100	1000	2.0	10	60
	595	~20	1000	2.0	8.5	40
	625	~20	1000	3.5	14	70
	635	~20	1000	6.5	25	100
	840	~35	1000	6.0	22	40
	940	~35	1000	5.0	20	40
	5500K	-	1000	10	45	200

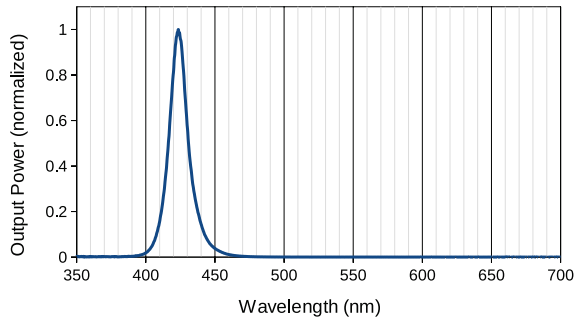
LED Light Source Spectra



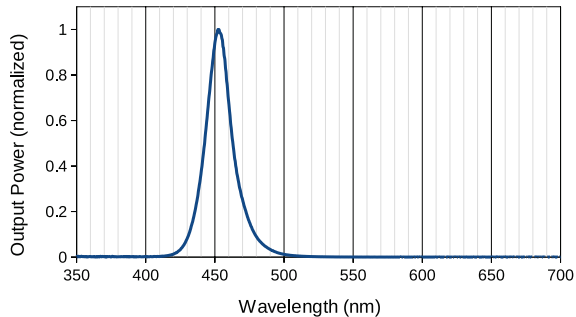
(a) 365 nm LED



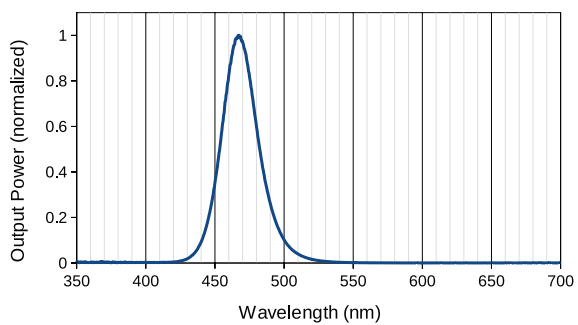
(b) 405 nm LED



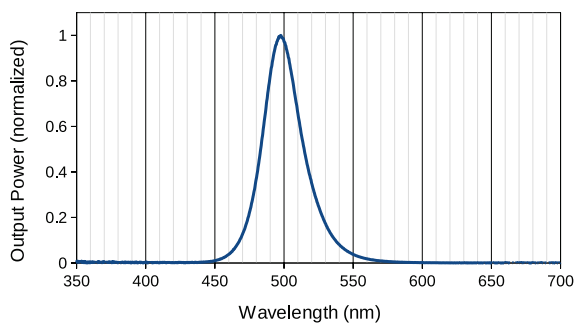
(c) 420 nm LED



(d) 450 nm LED

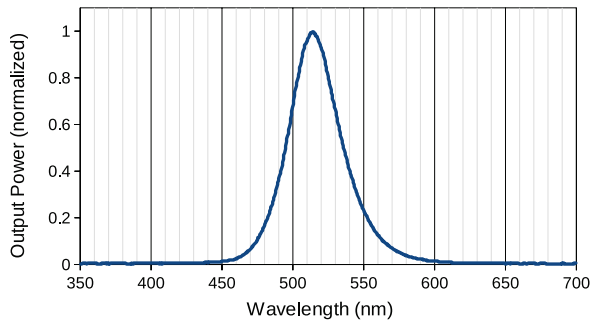


(e) 465 nm LED

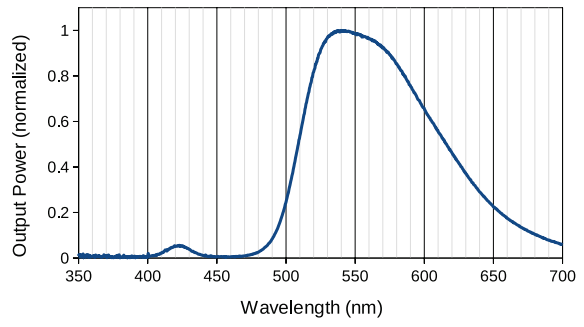


(f) 505 nm LED

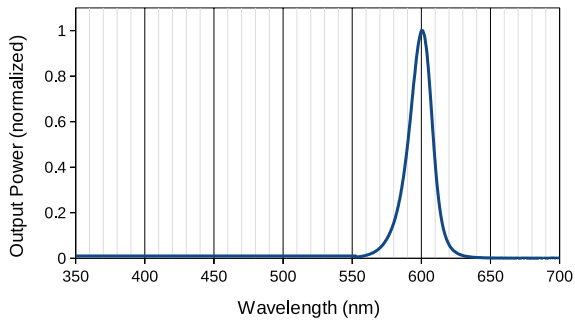
Figure 2.1: Normalized LED Source Spectra



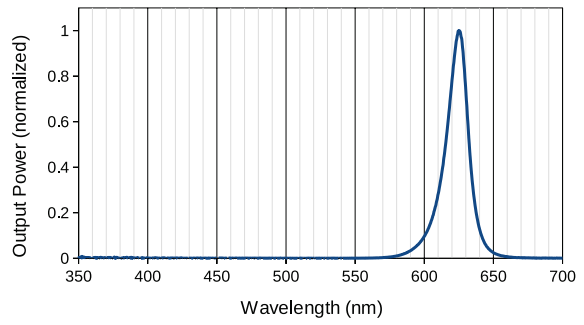
(g) 515 nm LED



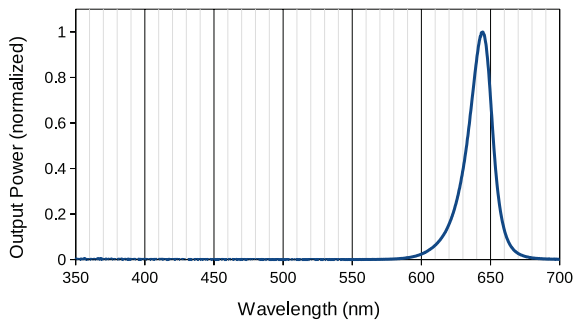
(h) 560 nm LED



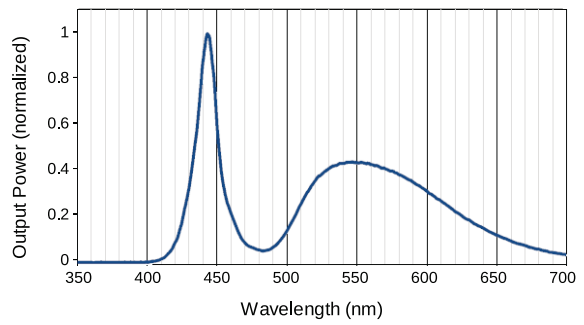
(i) 595 nm LED



(j) 625 nm LED

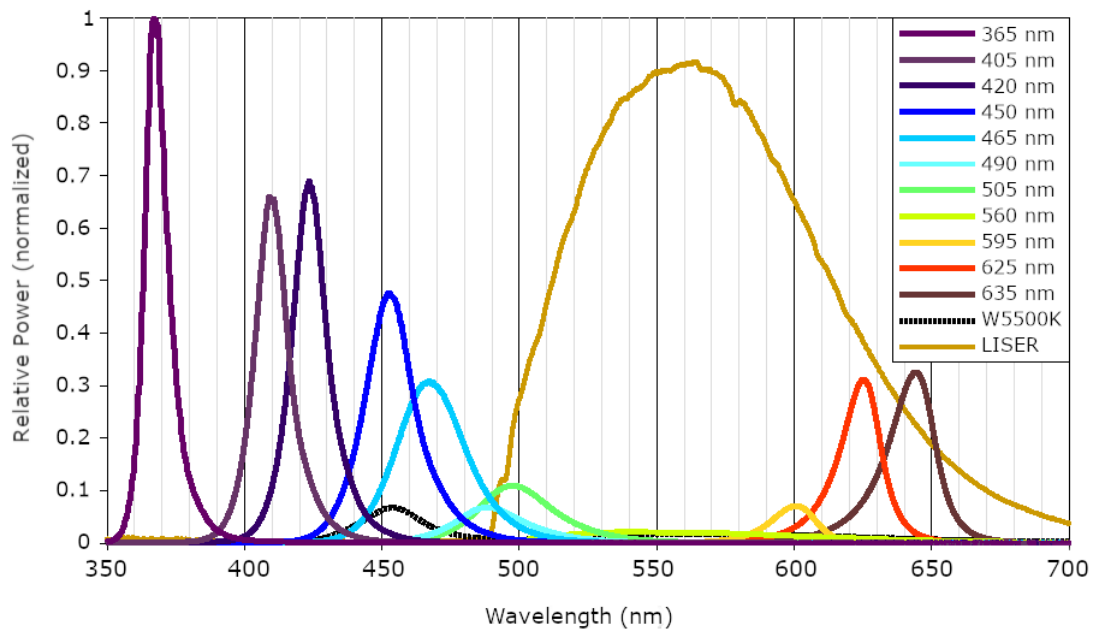


(k) 635 nm LED

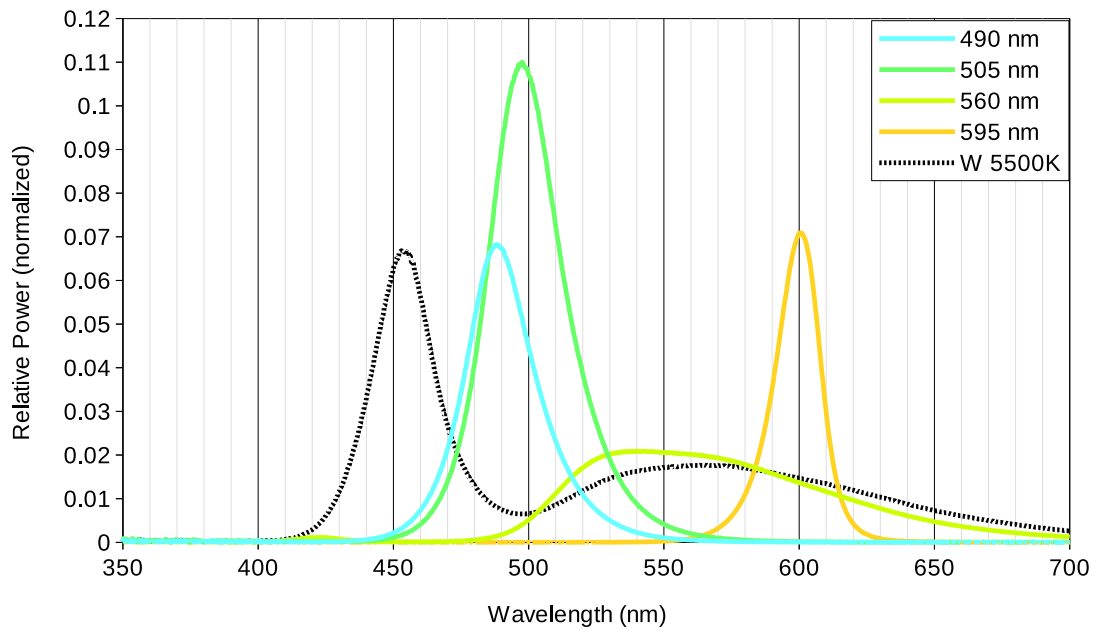


(l) W5500K LED

Figure 2.1: Normalized LED Source Spectra (Continued)



(a) Overall Normalization of LED Source Spectra, Whole, with LISER fluorescence Light Source for Comparison



(b) Overall Normalization of LED Source Spectra, Close-up

Figure 2.2: Overall Normalization of LED Source Spectra

Support

3.1 Maintenance

The product does not require any maintenance. Do not open the enclosure. Contact Doric Lenses for return instructions if the unit doesn't work properly and needs to be repaired.

3.2 Warranty

This product is under warranty for a period of 12 months. Contact Doric Lenses for return instructions. This warranty will not be applicable if the unit is damaged or needs to be repaired as a result of improper use or operation outside the conditions stated in this manual.

3.3 Contact us

For any questions or comments, do not hesitate to contact us by:

Phone 1-418-877-5600

Web doriclenses.com/contact

Email sales@doriclenses.com

The logo for Doric Lenses, featuring the word "doric" in a lowercase, sans-serif font. The letter 'o' is stylized with a white highlight on its upper-left curve, giving it a three-dimensional appearance.

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